attapetes, I Leptewher 19, 1958 Ceno Punta ### = gutturales = Yellow-throated Burk-fuich. There burds are quite common around here. Lugle, or in J pairs, or trios (probable adults with young). In undergrowth I mustly but rometimes come out in open to feed on ground or I sit on exposed perches. Les shulling than Desperted They also reem to your the mixed blocks of Buch ton ages a warbles - at Ceast temporariely. Mey are quite anemenops-leve in general effect; but ratter eleverer, les round-boolied. They do TF's of the unal type, quite like anomenages but very little or less probables notteurs in the cucy of WF's. The out round I have ever beard their wale is a roft "Fulle" olivious a CN; frequents repeated. I have caught one livid in the net and put it into a cage. Quite uleut thoughout = brunner-rucher = Chestrut-capped Bush-fruch Muce levids new to be moderately common a little further down the mountain. They are neg defruited extreemely shalkmig I have need none this morning - until one approached in I put this lived in the cage, and it was quite intent

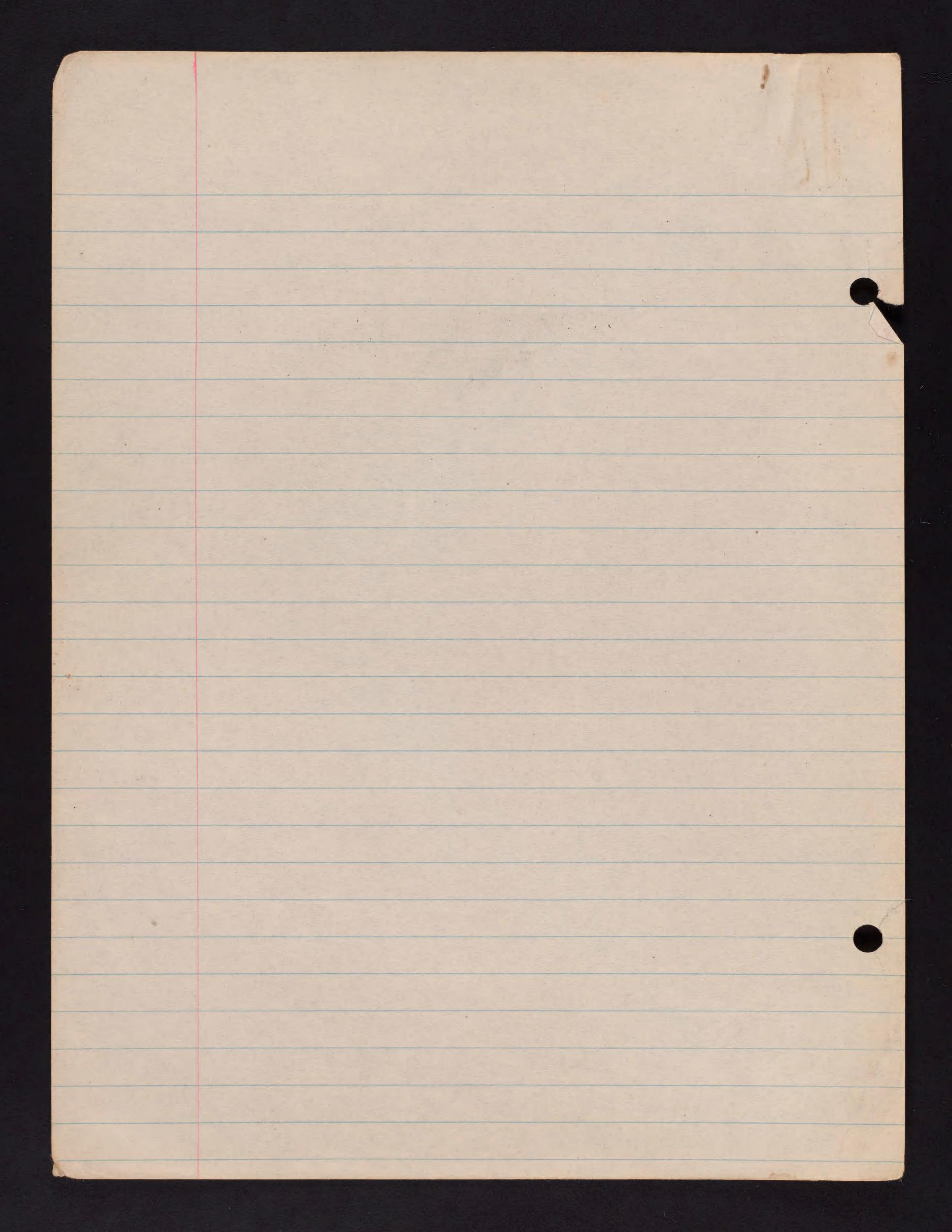
altapetes, I Leplember 31, 1958 Cerio Punta again quite releut when handlood. Surpriming enough, mates of this species do not reen to grie au soit of vocalisation when they join or rejoin oue oue author. Quite milie the green backed Spanows or Yellow. & tugged Friches allapetes, I March 3, 1759 Ceno Pauta Hellow throats ourwell now much as Cart year Sugle or in pairs In the name edges as the Yellow thighead Junthes Poully actually following or being followed by the Gellow the gled Justies - although I can the sure about thes. ar usual, the Yellow throat are quite remarkably relient, on the whole. I am not more that I have even heard one of them uttle a min gle CN yet thes trip I thathe I have probably heard roug however. One brid of a pair I destructed When I first got a clear view of this brevol, it was return with a prece of m. m. in its bell, a couple of feet away from its mate. They I think it uttered a noft warble, followed nimediately by a roft trill, before it hopped toward its mate and deopped the uni. faturen, I thinke that the name burd uttend a long reries of cercelerate ed notes, quite leve the " of Song of the green backed Sparnow, but

attapetes, Mar. 3, 1959, II. very much rofter, while it was Cooking at me rather nervous. Ot earlier may bace been romething of the rame sort Both their recalitations recued to be given from perfectly were 11 1 trated returnes porturies March 6, 1959 attapetes, I Ceno Prento We got a new good need of a cheitment-capped Buch fuich. rugues the morning. Coalon't ree what started it off. When we ground surging appairently by ittelf The roug ittelf was a long. rather roft, whiteel phonese The phones were repeated again a again for at least a minute, pour le more Mey mere also quite variable a typical plurare may becer been more or less comme ça Jut tut tut teere tut - teere toere" I think that the runniles of entenderetors "Fut"s varied from time to time, and it a possible that one or two were occasionally uswited later in the please I cale diente that the number of doubtes, "tutteece "was nome what veriable, nome plomes pullages victualing 3. In any cace, the main parit of the please apparently always committed of doublets and all the pluraces ended with a neighet "teres." This roug was green while the build ratin our ordinary with my porture - with west very nuch racied (CR), and thoat feather

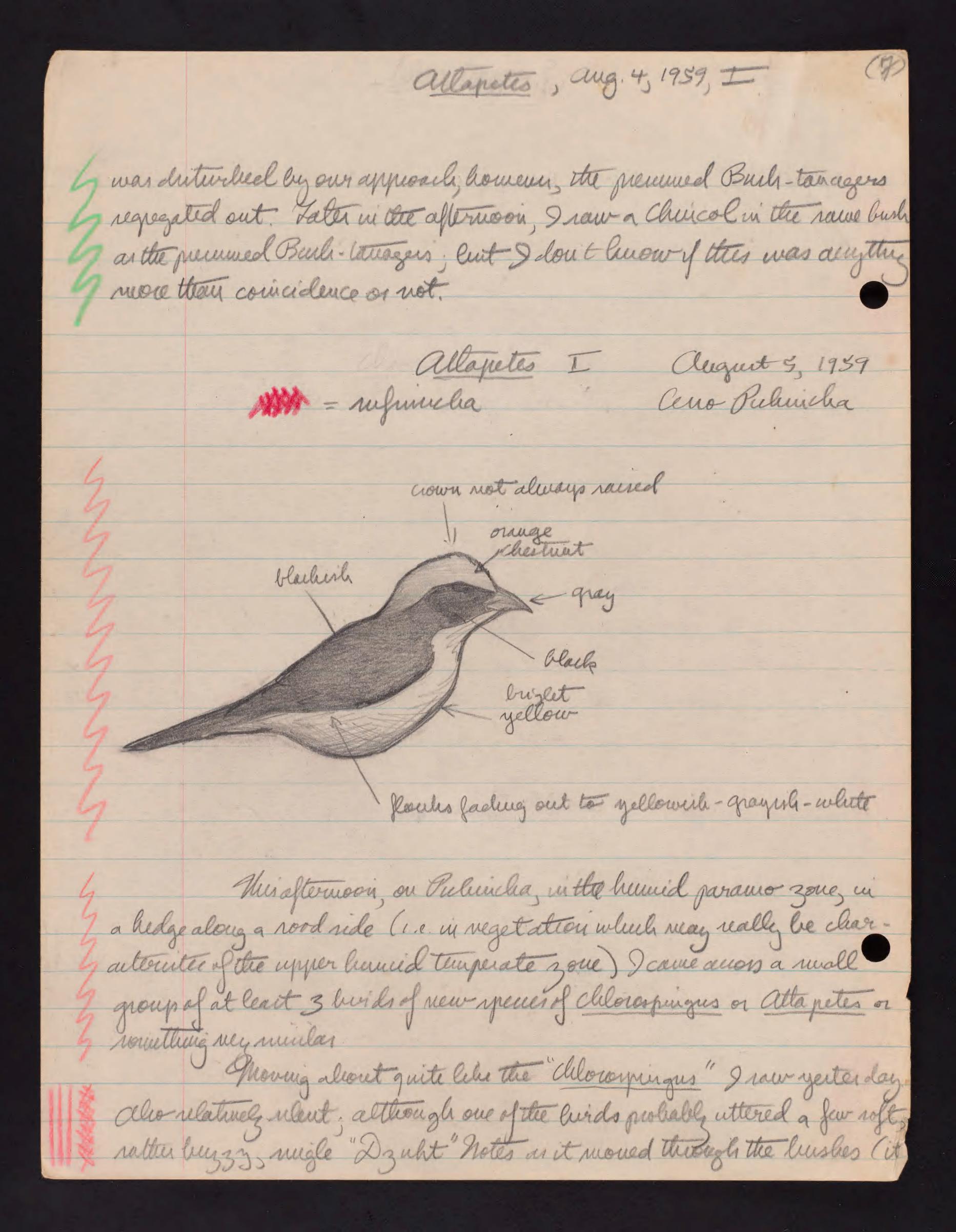
The Cevid pirt disappeared from view after it stopped surging

attapelles, I March 12, 1959 Baur Colorado Geno Bunta before Craving Lelie io many other species there, they were quite relant when handled. When I brought their here, we transled their (1 blue and 1 red), and let them loose in the eage with the one surviving Yellow throat from my previous trip to Ceno Vinta I think that one or both of the new livids ittered a couple of might rather liquid - rounding "chip" notes when first released after that I oul watered their for about 5 minutes (as I wanted to let their rettle down in peace). During This period there was a lot of active hopping a flying back a forth lyall 3 herids, but they were all quite whent throughout Irlen ce is obviously one of the most dutin twe characters of attapales I think that during their movements the old bird was more often advancing to - Long ward the new ones, and the new ones re-Trealing before the old one, more often than the rever of movement ded occur. There re; but both types were no rigno of actual Sighting. The shot hund often stood with its feathers ite CR, emplaning the a rather dutivicture way. Defrer white crown stupe. Yellow the of out fluffel, but not ruffled, juit Coalius swollen (Inhall J call this "The"). This CR and The is new reminiscent of brunner-nuclear, but much less entreme The old lier'd combined its CR and The with a variety of postures. Stand me high, wouching low and forward, etc. etc. all norts of obvio

attapites, Mar. 12, 1959, I but this was never very extitue, and 9 don't linewifit was retuel



attapetes, I. = leucopterus gure black blackeil rooty caramel white San autories mottling or streature Ca de Quito afternoon, allegrent 4, 1959 We came across a muall flock (at least 4 015) of there beids, in the breek along a much were in the wind temperate zone. Very active and reitters livids. Or far as I could tell (and) never got too overewhelmeng good a view of the avids) they moved alrout just belee the allowingurgus at Chirique. The west districture feature of there herds, if they really were a year cer of chilosospengues, was their comparative vilence. They gave a lot of "Just" CN's when just moving about in the brushes, and accelerated bursts of at least 5016 rapid "fut "Cals when flying between" adjacent liennes (there accelerated series were far too Now, leowever, to be called an "R" of any rout), but all there "fut a cure ulating When we fout cause auous there hards, they were feeding on the ground and low in rome tices (willows) may nome Chricols and roue individuals of a Coursestrum species. When the whole group



allapetes , aug. 5, 1959, II, (8) generally brept low in the builter, relation or never more than a complet feet of the grocered. Bail of their time, it beget the top of its head absolutely mostled down flat, but once it did a little CR quite like that of attapetes. allapites, I august 7, 1959 Cero atacasa Mus monning me annied at down up in the parame, at a place where beenly regetation (characterritie of the humid temperate zone?) exten Led up a valle, vite the gram dopes. When we frist annied, there were some 2 or 3 of the rufous capped, yellow throated, Allowaguignes - alie briefs, un grug from perchees in the shrubberry. I was out able to see on breid suigues and this was under rather unfevorable conditions, but his suigues poeters seemed to be comme se Quite Gluffed. Wines rlightly decoped The rougs themselves were quite lighty variable Counting of clear wheatled notes and ratitles, unally or always of preceded by a sharp CN-like note. Some of the rough I beard ruglet be represented by the following hagrams of transingtions: Chip thee Free Free "or "this thee Free Free" or

attapeles, dug 7, 1759, II (9) "chip chee monner or "Chip chee Wheeso" or Chip Jeeo Jeeo municipan all this was quite revisionent of the SR type rough of the Brown-capped Buch tarrager, and ever wore runivicent of the worderegerton of the foots-capped Bush-tamager, unofor as the Relement runs to be only locally connected with the more musical roug part. Surpenugly enough, the ungues hirds all stopped and disappear edly few remittes after dawn, and I didn't alnewe are more trace of them during the rest of the moning august 9, 1939. allapetes, I Wateleing recreat model parties of this yellow-bellied species moving through builty "hedges" near the top of the brunid temperate zone here. Very new certure and reithers. Lowe, al Cearts of there mull parties were fain iligroups, adults withfull grown young. He lived were retter rileut, except for the fact that they uttered ret been weak "Frit" CN's nearly countainly most of the time, both whey actually reveres or flying and when pended ready to move a couple of trues their monning their more under outbursts of more elaborate vocalizations in one or mon of the parties. I couldn't tell what provoled there outlewests It is possible that all or most of there date state resealing ations were being used as "greatens" when one members of a fam Is careful up with another. There elalionate rocalizations contained most of the rame elements as the "ordinary rong derented above on any to but

(10)

cuted as follows: " Tuk tuk tuk tuk tuk tuk MMMMMM where on where on where on where on where on where one "

Later I beard a berid apparently maping by still. It gave nouse plus ares just like their described on aug. 7, also some plurases just like the "que etwa veralizations" demoked immediately alrone, and also a great number of prese Rattles by themselves alone!!

actapetes, I.

March 20, 1960 Ceno Punta

Here been watetung Yellow. Uncated Bush finiches here, in I the unal places. Believing much as in previous years. Shalling and I releut.

Call their gair A. Mouning about in the shrubberg. But comparative and no occasionally coming to the tops of bushes. Every once in a while, one build would be left alone on a top of a bush when its mate left it bulind. Such a brink tended to six there for at least a few records, looking were or less about (occasionally adopting a preflight portion, with The, bulie the one chawn on p. 4.), doing occasionally adopting a fire of surfle to in the pentione, with the as usual), and uttering a lot of surfle only. I have CN's are their and apparently roft, but quite remarks ably pentiones. I would now transculie them as "Trit" (nother than "Tuck" as on p. 1.). Our livid, probably the q, when left al

altapetes, Mar. 29, 1940, It. ou for a comparaturely long period, uttered a few ruigle noticeably lon gen Treeeest Hotes intermingled with ordinary CN of lefou flying I of menuerally to jourits wate. There long "I receeset" Hotes were pieumales produced ly thwartens of romething alie a paining drive I I shall call them ECN o. I think that once, when one hird was left alone (penuliz the of?), it uttered a few CN's and then a long thur, reft, wardleves "sons rather like a muffled a particularly reft version of the nous" of the Gellow-thighed Fench. Both the CN's and ECN's are certainly unall uttered with the viele closed, cellinger the bill impered a closed occasionally with cutter one a both types of notes. If one beid ded utter a "rong" today, this was also done with the bell cloud throughout altagetes, I. March 22, 1960 Cello Punta Saw an apparent paris of Gellow throats sitting exposed on a top of a bench. a third beid appeared, and one of the pair flew at it and chared it away. Hus appeared to be purcle houtile. and appearent by peerely relevit! The two livids unrolved in the chave disappeared. and the remaining beind (the q of the pair?) remained ulting for reveral records and uttend a whole reries of ECN's (migle but que to (ropeally repeated) Mis efternoon we saw a little more ECN heliavior, m'à pairs. In the case of one pour, one build flow occoss the road and into a thicket ou one ride of a field; and their leagues to utter ECN sin we

deratety rapid slegther

allayeles, Mar. 22, 1940, II.

13)

11 & It was numeliable ourwered by another bird, presumable its wate, from It the opposite ride of the fuld. Hierother bird also uttered ECN's, in reso se or Cers the same shy them Then this other bird godnally nound the feeld, Elyeng from built to bush in the fuld, continuing to with E-CN's until it was half way accors. When the 2 brids frially got tog other, are did not bear any nort of voial greeture or roug (infortunate ly, we could not bear their as they were hidden in the revelery) for both rever can utter ECN's. Latte ou, we now austher mer ble auous the road, one buil well alread of the other. The front build ultered 3 ECN's in fleget ui a regetter course fa: bere way beguite cloudy related to Prelliophores The west ECN's by a Hellow-throat reparaled from its wate is raller remuniscent of the Whee whee whee... notes ullered by the nolated yellow-they I westited on March 3, 1959 (III) p. 7 of the notes on Prillepphocus Demales beginning to think that the spices may really have lost all time of a roug pattern, or at least, has a greatly reduccel some complex. Sombly because the members of a gavi steels togethe er all year round. At way also be regulicant that the Yellow. throat recus to be a follower rather than a leader in mixed slocker.) Cetta peter, I., March 23, 1960 Cello Paula

Becently we have been paying particular attention to I pair, I fairly low down on the mountain, on the upper edge of the blanes. I call this pair "B" There are also probably several other pairs we

althoretes, Mar. 23, 1760, I. (13) Lewitouer adjoining that of pair B. Live linew there is at least one other en buid who oumonable weets pair B), The B's were probably in fairly advanced building constituen Sivere wie have neu one of the Bluids corrying non. Every twee we flush the Blivids, one or both flees away cet Torus ECND. Daw now fairly certain that the ECND of their years are generalized prestration reactions - presumable of at least moderall enterents - rather than always the usual of thewarted pairing or revial motivation. at least nome ECN's new to be retter high in teverty alarm reactions. One lund I dieterred today storyed in a the chet a seer feet from me liopping about very excitedly (lint heeping fring we alward all the time), performing lots of TF's Cand WF's), with CR (and probably some reight The), and uttered lots o Cols of typical ECN's, one ugest after the other in favor rapid ruccemen. The Cill opened oclosed with each ECN (revealing the rose red unide the mouth quite compicuous. Eventually this alarmed heid flew away to join its mate - wethout performing anything else in the way of desplay. Several other trues, when we duturbed pair Band on their

& neighbors, in deep twelvets where they were impossible to see adequate I be, the dutirited buils responded by uttering lots of ECW's and - almost certainly - uttering a reries of rong phrones. There were greite variable; but some of their night be trousurled by some there Celle: Tree Tree Free Free beenhee hoo

"Tree Free Free hoo" or "Tree Free Free Wheeloo"

2. We were actually new a Gellow-throat utter such roug plurares

Yellow throats. For 2 warous. 1. The initial "Free"s of the row gland there some plurases when we hnew Yellow. Throats were quite close by.

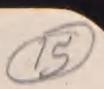
pute between a pair and one or more of its neighbors in magness.

It neves believes therefore that some or all of the song of the single or completely acitete.

all the rones are comparaturely roft and very their-iounding — and quite rewardeably neutrilogural, in the reun of being very difficult to locate premets.

We went back to study pair B again this afternoon I not more or less obscured in the widelle of a heelge, while David "drove" the pair part me 4 or 3 times. They rever utered auxiting except E-CN's as they went part we — except one. (It is probably not surprising that they uttend almost nothing but ECN's this afternoon, It was the worst time of the day. And the pair was more or less cerroualed we the went time of the day. And the pair was more or less cerroualed we the went time of the day. And the times they were wear me.) The our exception was rather interesting I widelend became aware that the pair were uttering ECN's pirt believed me. I turned around to look at them. Just as I turned, one of the brids uttered an unweitable able louf R! I rather think that this must have been at least partly houtell It is possible, however, that the livids about necessary are less houted to work from the rough we have been a least partly have been been showly houted around completely. So this R was have been less showly houtelle, or lower viteurity, than the rough we have all this morning.

We only beard the song once this afternoon. This was when we



cause upon the pair rather meletent recor their next rite. One of them uttied a wife roug phrase pict as it flew away. One wight expect the wirds to be uset should hartile was their next-rete. I am now quite certain that this type of rong is being utter ed les three heids. I shouldn't be surpueal, however, if they uttend other yours as well. It is also quite evident now that the Yellow throats balute Lally follow or your the new ed floiles. They are reldon of never the Cool Les of ruch flocks; but they are more than just carried unociates. I have been struck this year by the sumbaruties in general belia I visi lietween the yellow-theoated and yellow-thighed Buil Findles. The Yellow-thirats also seemeonally go bigh wito trees, and "flop"
I up a down vines a limber, in almost evailty the same way as the Yell Low theyers, although whalive less frequently In both there respects, the Gllow-Throats are quite different from the dutunt-capped Buil Friches. I have never need a Check mut cap with a wired floils - not ever anouated with yellow-Mosts. and the aleetunt-cops always remain on or close to the ground They are fan more rhullering than the Yellow- throats. Ce pair of Chestuit Caps paned by me when I was hidden in the thulest steeding quite lessures on the ground. Mudities led or maware of my presence. all the true they were feeding they aftered nearly constant roft, them, rugle "Trece's. Even themer and rofter than the ECN's of the Yellow- thoats. Presumable "contact notes." They were not accompanied by the elightest have of menal returned partieres or modements. No trace of cetter CR or My.

March 24, 1960 altapetes, I. Ceus Paula Just below the bug bend of the road below Ceno Penta we cause arrors an altapetes uttering ECN's and migning in a bush aroun d 4:00 p. m. Some of these rouge were essentially the same as those I beard yelteday Jurittee down the mountain 98 We could not see the runging bird very well, so I capt around the bush - oul to verpice 2 yellow throats and 2 Chestaut-copped! I Saw were that it was the Gellow-throat who was giving the rong above. as I came upon the lierds, however, rome one unddenly atter ed rouse roug phraires which received to be rather different. Stronger and more whirthing. Len of the Ecce. "quality. (David rays that the notes & putels were like this: It is possible that the latter phrases were uttered by one of the chestmet capped birds

Morele 24, 1960 Ceno Purita

We dutiviled the pair of yellow-thighis wear the upper part I we this worning. The thoustayed hopping around in nearly builter for new evaluates alisolately no trace of roug. They uttered CN's a ECN's when they were wear us (i.e. when they were alarmed) and only CN's when they 1 2 were farther way from us. The of and q often became reparated from one another during their when they came together again. This is certainly a big difference from Dan now quite certain, from my observations of way virils that the CR and The of the species are indications of either alarm or has & teletin general. a nervous " Gellow throat is very apt to perform cutention I recomment of Slight bowing." First rounds with neck wetterd upon ard, then abruptly lowers it so that the ruck stilles straight forward (or every forward o downward, then upward again, they forward again Hus way be very rigid a regular, and quite utualged looking. It Men actually Junction as a righter. (femilar monements are perf.

& orwed by may other but Juckes. This afternoon, for untouce

ive walthed a much seropetes behave in exactly the same way in similar wicum lances.

We were walking along the road, near the great hend, were close to the spot where we heard the attapetes song on Mar. 24, 1960, when we rudderly beard a rong from a livid hidden in a leuch. I recognized there as attapetes rougat once - and also as the roug of a Chestunt - Capped ruttier than a Yellow. Throat. When we finally saw the level, it turned out to be a clienterest Capped, as expected for we must be getting pretty experit in recognizing the rouge of

Deur faurlz centain that when we front heaved the livid probably when we frist dutwelsed it), it ultered a few roug phrares which were organized in almost or exactly the rame way as the commonent rongs of the Yellow throats.

Till tuli - Teececece tuli tuli

Inwestiately after this, the rowers because extremely nariable. There ded fromewer, never to be one "basic" plerase. Wheels ruglet perh aps le represented les the following diagram.

Dowed would trous vile theras: whee he whee he heeceeun I think perhaps I would trousculie it as "text tee text ee texessee If no, it would appear to be identical with the none described above on

attapetes, Man. 28, 1960, II. 1 (2) Mar. 6, 1759, p. 3! Most of their baric plinases had a little terminal bit added. fourteurs juit a rugle "be or "tee" note. Sometimes ce parteal duplication of the end of the basic plurase, i.e. " he becese. cerur or "tre lececcece" Puliaps Sometimes a brief tuple note wheels David would trausmibe as "titamherseere " (tub-ta-trecerere"?). More often a double "tet wheeceece" ("tul - Teccoccec. ?) (Phis Catter don Ble reste was rometeness also utterest widependently, apart from the bracie phrase.) David is fairly were that all the rough, at least those ending with a fairly long note tended to become lower in pitall there rones were defuntely stronger and more whistling there the rough of the Yellow-throats. Doubs now the levid actually suigue, once. Letters with lead of well pointed diagonally upward, but with little or no CR or trace of CR, but seglet no more than thes, Mue rougs were also intermingled ordinary CN's, More or Cers "Trit"s.

attapetes, Mar. 28, 1760, III.

(90)

It is interesting that neither the Chestrust-Capped wor the Uplow-threated allagetes perfour "operating" rough when one mate joins the other. In this respect, the refiniche brids described above on aug. 9, 1939, p.9., way be interwed at a between the allagetes usp. here and Preliophous - just as they reem to be interwed ate between allagetes and allowagingues in rouse other respects.

attapetes, I.

Marule 30, 1960 Ceno Panta

We caught two Yellow-throats in the nets this morning. Both quite wheat, although their struggled vigorous and tried to lite.

Les which never to be characterestic, fall buth friches and bush - tana gers except anewer was simply concluted with their gregarious beliefs (see these brids neight not be able to use a begli intensety aggressive pattern were it not for the fact that the christiant-capped allapetes (and presumably the Orange-belled francow) are also quite releast when handled in the net

Moide 31, 1960

We canget another pair of Ifellow-throats in the nets this morning. Both quite releat when handled, as usual One of the build, bo were, (probably the of), performed repeated Japung in my bound after Doct livin out of the net. The bell opening (quite widely) and closing repeatedly, in a supplemental fact shythen Accompanies & CR. This Que

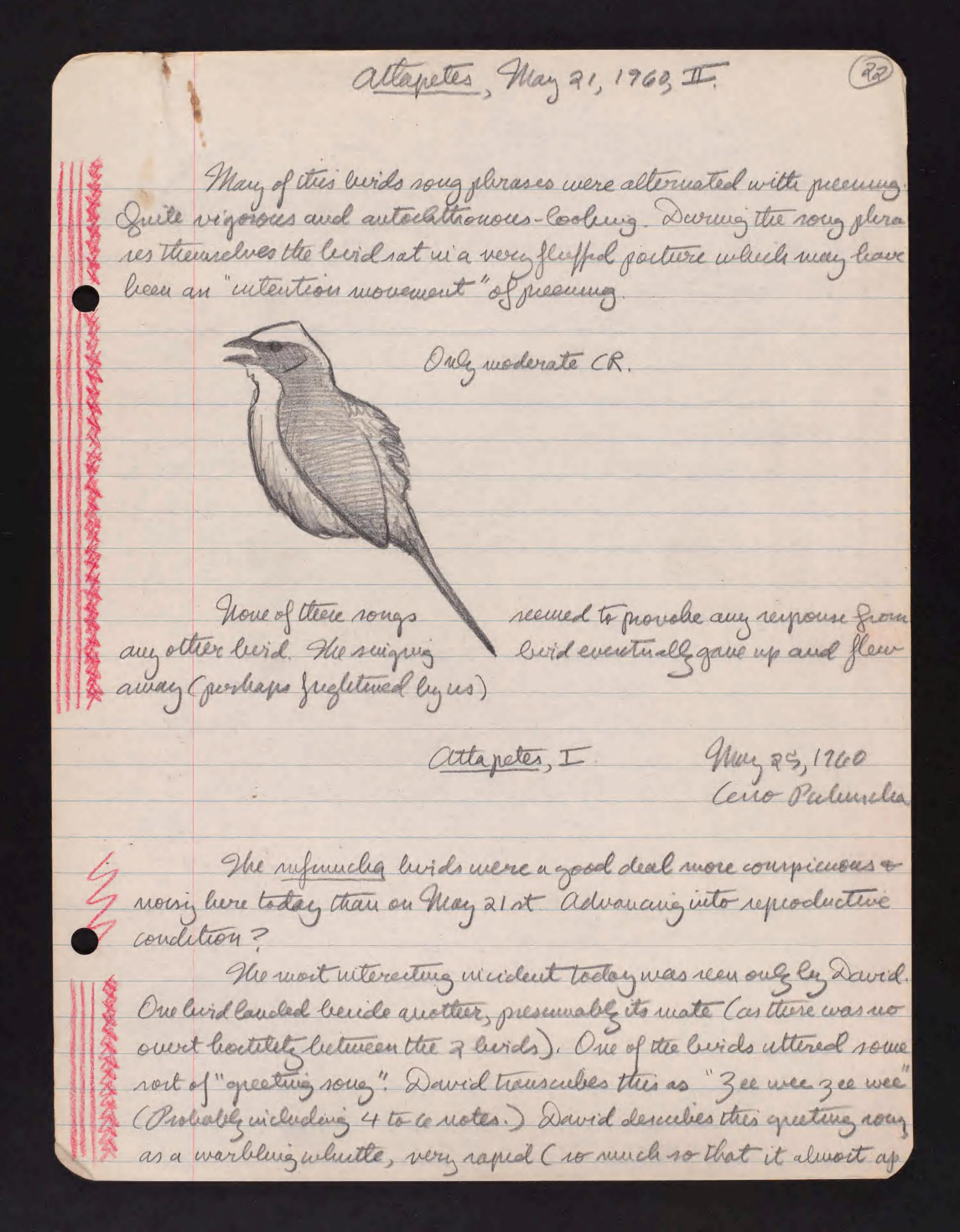
I cooled almost Cele parting, but the lived bad witarily not been I strugglug enough to cause mel prolonged and vigorous parting fo I threels that it must bour been a retualized gatherie. Verlages the equiv about of the HAC of reset tanagers. (Perhaps concluded with the fact that the menthers of a pair always stick very close to one another & and represente javes unalle itay far apart. We caught the record wird (presumally the q) nowetime after calibring the first. When we put the record brief into a paper bag with the frist, there was a sudden hwest of moderately noft, twittening for where i wardling roug from the bag. Quite remunicent of the yellow Theyers, " auditation that alla peter and Prelliophenus are rel

I also consellet a Christiant Capped (buell, bufore it got owners). It was also quite releat when handled.

allequeles, I.

May 21, 1760 Ceno Puluiclea

Mis monning me wateleed a suigle sufmindra setting lugle on a vare living cet the top of a teell tree, suigning repeatedly. Tremually of His rouge were west dutuntive. A ruigle plirare, were freque artes represented at intervals of a few runnites or records. All beis rous Aurares this monning were encutably identical, aut quite different from any rough I have beard from this species bufore. A migle storage might be represented as follows Cheeco Chesoo Chuk Chuk



autopetes, May 25, 1960, II. proached a rattle ni rhythun). Later in the monning, David observed one levid apparents all by still, atter a reries of "rapid, loved, harsle" notes - which were almost certainly closely related to sordentical with, the notes I have traves culted as "Cheeo" or Freeo ou precedeug pages. Still later, we heard one beid utter another duturtive type of "rove". (We couldn't actually see the build when it whereast this vocalization, as it was hedden deep in a built, but it flew out of the built a few recouds later - followed by its water.) Their roug" began with 3 "D'3 some " notes, which were followed by an obscure working bit wheele was followed, in turn, ly a Rollle. Nocaliations of this species! In mid-monning, me beard another hurst of pendear roud which were suchably ultered by this Cettapetes. Coming from deep inside a tall thulet. A whole hurst of harrie notes. Witered suizes or in doublets, or in tuplets, or in quadruplets. _ or __ or or - - Each one of there reples might be transculed by rometheme lette "Want or "Danh" Megalloralmost all had a pronounceed ratile indertone. Her mere quite remuniscent of the HAC hotes of way other species, but rather more mechanical rounding. Muywere ouaroually reters persed wells "cheese" or "Feeso" whites. David saw an cettapetes moving about in the being when there rounds were leeves uttered, and the rounds recend to move dow n the leurs as the beid succed. Then the levid flew out of the beuch and away. David raid that he is columnt watar it was a refunction It cooled comparatively sale and groups wederweath, but ded near to have (at least) a yellow throat.

attapetes, May 24, 1960, II ghrase was quite duteneture Rattle "Cheese s The only warranteous in this phrase received to be relatively rave. The ment common was omission of the Command rattle In a few cases, the rong plurare was uthodical by a preterminary "Chip's untead of 1. (a type cal rougherase with 2 introductor notes and no rattle is premierole what the avid we wateled on Outrinelia on May at - ree p. 21 - was uttering,) It is possible that some rongs victuded an extra "Cheese note. but Frattees doubt it. I don't huow why the rough of the of today were no much less variable than the rougs of the of I watered in the roue area last yea r - ree notes of aug. 7, 1959, pp 8-9. It is oliveous, however, that the roces we heard this monning must be considered the typical adver true roug of the years (arther news to be the beginning of the breeding reason for most yeurs here, and there were so may yellow Celles si ugues their morning). Verlians surprincely nous of the migue beids performed as overt hortike et rerual gatherus - as fas as we could tell - during the period when sugues was most where The whole dawn chous decreased abruptly at run rise. We still accord an occasional roug, rutter meak-rounding, during the nert half hour or so. And then complète relevée!

Ca de Duaquito attifulles, I Mus monnie une saur another of Yellow-belle suignie m'a leedge Lowe bere. Before nurvice as usual. His rouge were diglette different from those we heard yesterday on atacasa Might be represented as fall. Deeyoo Deeyoo Too-too-too Sometimes followed & a Battle. Louistines the recould note was Toower untead of Teeyoo. Or Janas I could tell, the of was netting in air unal porture wh en ultering there notes not greatly fluffed. I consider if every local population of this years has its own il glitts dutinctive vermon of the local roug pattern. Ceno Puluida This afternoon we went back to the usual place; and raw a little more Gellow-bell, achanior - and romething of another years We probably heard another greeting " rong of the yellow-bill tes. A jair of herid moving about in the buch. Adde tree there myself - but David aquite sure of their identity). When one lived apparently somed the other we heard a brief warlie (probably the notes which a avid teses culted as "Zee wee zee wee" on May 25), which was accelerated weto a defrente, high petered but compas atwell rost, rattle then the whole phrase, wardle -> rattle, was

Ceitapetes, May 27, 1960, II, repeated once, unvedictely (there was alrealutely no paure between the 11 × ruceurive phrases). This afternoon I also got my frist good view of another species which is almost certainly cettapeter animalis (= MM) (I cought a few buil glumpses of a pair of the rawe buils least year - but too built I and too obscurely to delevenere what they were.) Huiland looked appr ormatels course ça: Vous Vezopetes-lelee in general effect. Big-booked. Head black & slate gross. (The exact arrangement of black and gray shown in this drawing way be elightly incorrect - as it was defficult to ree in the light available this afternoon.) Very comprenous white Throat Upper parts olive. Under parts gray, gading to alive porter The only interesting gatternes I raw this bird perform today were fluting movements. U-D TF's with a strong lateral component. also WF's. There WF's were rarer than TF's; but when they ded occur they were synchround with TF's. This species is much more lilie the altapeter upp at Cerro Gunta than leve the Hellow-bell in general habits. Shulking Moung on the ground or in low brukes. Conjunaturely wellent (9 have yet to identify any of its calls on notes.) In case I have forgotten to mention it alrows the Gellow liells Is not one comparaturely nousy but also non-tenedual. It is a buch lowing yeties I have yet to recit move on the ground; but it is unally Jound in lines 2-10 st off the ground.

We beard a Yellow-Velles suigues here this morning (que te far apart - defruitel not the same burd. Both gave encutially the sauce roug. A complete typical roug plerase was comme ga:

" Feedo Teedo Clube - Chuk - Chuk

Occarronally au extra, Journth, "Church" Wolf was added at the end. To my newsprease, there was recent any Raddled. (One of these brids migning ree p. 21. He didn't utter any R's then cutter)

Both levids also uttered lots of "miscellaneous" Freed's and "Chuke"s Either mids, or in reries, or all runced together in apparently ron down order.

Ju nome cares, the terminal 3 or 4 "Chuke's more replaced & 3 07 4 "Cheer"s, abbreviated whether rather like the first "Feron" hotes but

I get one suiguig. twee recown on it ultered a mote, orally upward. the wines were one while migring

very good flugre of one of the civids In Cetatien rouge it sait in the pos May 26, 1960, p. 24, luterey time it defruitely possited its bead deag-CR was extreme throughout, and just reguleslity desoped. auras appeared to be quite al Lelie the other Gellow belles I bowe watered, they were quite reitless during the

attapetes non 29, 1940, II.

To another perch, mig, fly to a third years, suiz, etc. etc During the actual moments the notes were uttered, however, it always not quite stell.

It recus obvious, now, that the "bane" structure of the rong

and I am more than ever courined that each local population has be reloped its own local various to from.

allayetes, I

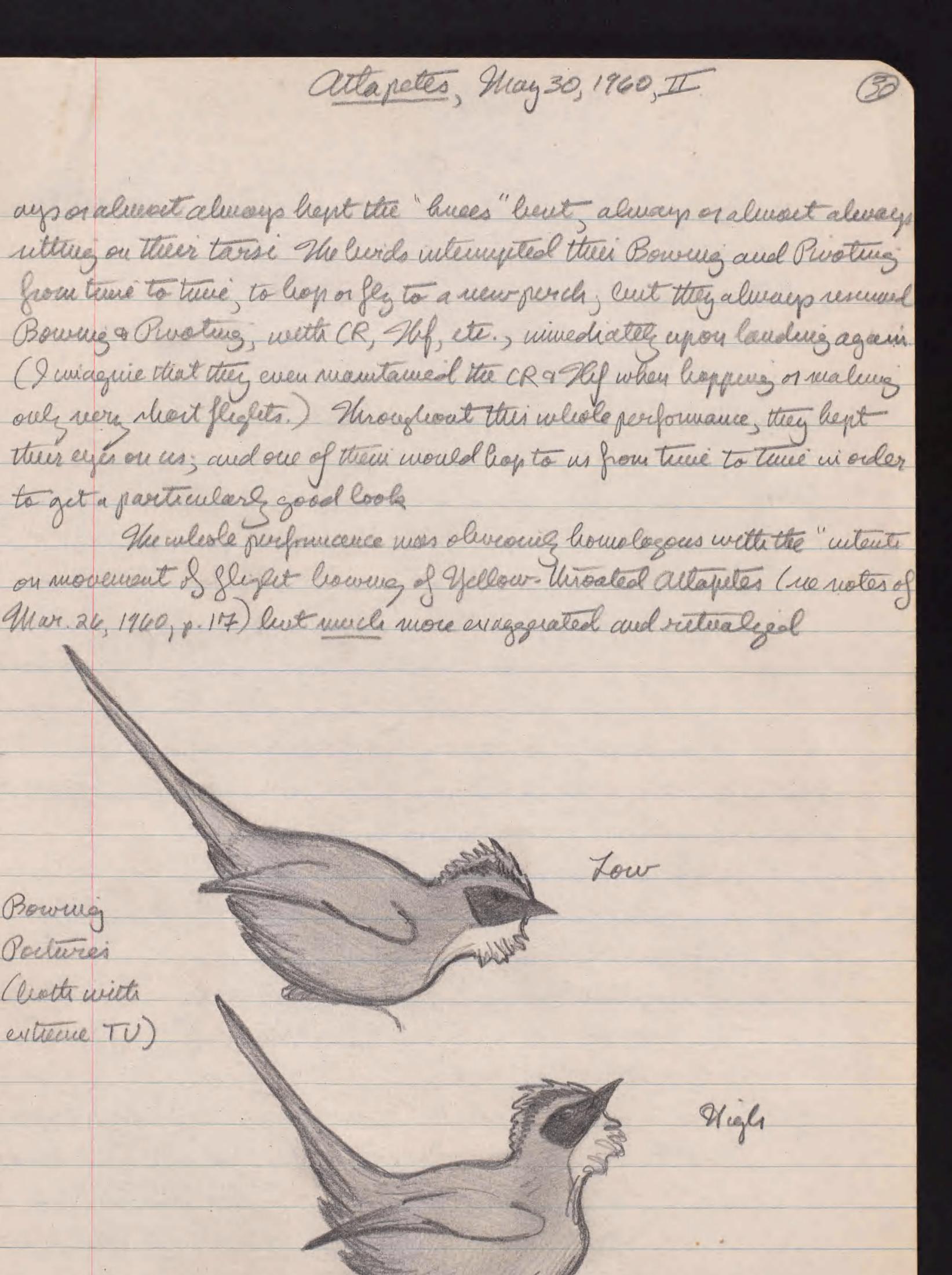
Ceno Pichwicha

(29)

This monning was cloudy with occanorial fog and for rani and we easifet many more glungies of Black-headed Buili further (assimilis), than on previous, large sunny mornings.

away from us, with ruore or less CR. always releat at all times.

Once, and went into elaborate display Rather regular Bourney and always combined or synchronged Dail usually definitely cocked upon and O shall call this "TV". Extreme V-D TF's, with very strong later al component, frequently superimposed upon the TV. No WF's. Instead the wines were held out from the bady a lettle and light motionless. The body plumage was only slightly flugged, fatall CR was very extreme and the trans a maderatity as them. The ! While periled, the brids alw



Bowwen Portures Cleath with entrecue TU)

The whole performance Carted at Ceart 4 or 5 minutes. Both levids were quite rilent throughout the whole juformouse I got a much better look at the ands today. Bill black The head cer a whole is dark gray Upon this gray is superingousl a black facial mark and two block stupes along the edge of the crown. Hus leaves gray rupra-occilar stupes, and a gray median stupe on the ground, plus a lot of gray believed the black wark (the black wark does not reach the back of the head - it is probably only a cheek patety) The gray recelian stupe is next mulle during slighet CR. We cause auon one Black-headed Buch finely which appeared to be havelleres along a hedge with a party of Yellow-bellies. The ouls twee we saw a Block- headed Buch Juich artually fee due, it was hopping about on the ground, in the path. Early this mouning, but after nuries, we came across a Yellow belle (sometiles probably not one we have watched before) migning in a hedge. This level had still another type of roug! "Isa wheeso when" I sa wheevo wheevo whew or a sumlar song with a lot of notes added at the end: Heri build was moving through the hedge in the unal way, and sugue in the unal porture apparents quite alone. dates in the morning are surprised a party of 3 yellow-belless in an adjusent hedge. Voulbly family (one bird had a gray wash on its rides and may have been a juvenile). There beids attened a great many ratter ragning soft and their, CN's. "Dit" or "Didit" on "Dididit or vi even longer reries e g Dididididididit (the number of notes ni their longer rerues mas quite variable, ded not appear to be fired

attapetes, May 30, 1960, II



There wids lead CR when we walthat their

One, when one bord flew and landed beside the other, one or both

brids attered the "Greeting" " 300 wee 300 wee 300 wee ..."

There were new any Millow-Belly perform utually al Bowing or

Prosting or TV when alarmed. They was cock the tail a lettle or perform

I have never new any Hellow-Belly perform study al Bowing or Owoting or TV when alarmed. They was cock the tail a lettle, a perform comparatively slighet and inequilar howing or prooting movements; but all these patterns appear to be quite unrietualized in form I have never noticed any Hill of the Yellow Cellies either.

attapetes, I.

Ceno Pichuicha

We did west of our work wear hour today (we today's rester on Digloupies), This is 500 to 1000 ft lower than the other area where we have wade our previous observations on Puliniclea.

Le ledge ou the edge of the road and instructed fields, and with heavy regetation of the ravine of the river. There is at least one pair of Blate heads herealis, in the lower warzer of the shrubberg alrove the cultivated fields.

As a result of watering both species quite a crit today, both wer a Grown and with and where we have worked before, I can conoborate may previous impremous of the babils of the 2 species. All the yellow-bell us I have seen have been in bushes or low trees. Never feeding on the ground, But I have never seen Black-beads feed according on alward care patter. The 2 species would reen to be strictly non-competitive.

Both muies are also completely non-gregarious. always or almost

To always alove, or in pairs, or what appear to be faculty groups. Early this morning, in evantly the norme area where we have beard --- type vous ou previous a & yellow- Welly ming lays, we beard the name type of rong again. Obviouily the name of the attapetes, I June 1, 1960 Ceus Pichercha Wolling recor nous again today. Wateled one Yellow- bell in particular, fang early this morning and then again at 4:30 pm. this afternoon. Most of his rouge were were or less like the ones we have beard other luids utter before (none of them included any terminal nattle), built a few of his song pherases were slightly receleur. El complete surare of this receleur type might be represented as Cha-cha-cha-cha-cha-cha-cha Jooolee Jeeroo-Other mulier of "Cha" hotes at the end was quite variable - sometimes only one or two.) The livid nat in the unal migrid porture while where we this type of vous. always apparently alone. All or almost all the Yellow belles me have near surgrung thus try have been apparents alone. This would definitely indicate that the

bowe leven apparents alone. This would definitely indicate that the roug of this species Cat least the ____ part, without the rattle) is unally as always produced by thewarting of rowe pairing and

attapetes, Jun. 1, 1960, II

(34)

Several times, both today and yesterday, we have observed more

Yellow-bellies uttering "Dit", "Didit", and "Didididi..."

rester quite like those described above on May 30, 1960, p. 31. Sowe lands

near water and others apparently above. Those of these beids appeared to

be alarmed by us at the time; so I am now alwait certain these notes are

"ordinar" CN's nather than allow's.

altapetes, I

Ceno Pulmicha

Worling near nous again Today.

Plus mouning, from the time I amwed, at 6:00 a.m., watel at least of: 00 a.m., there were Black-headed attapetes surging all over the place!!

I froit verame aware of this when a ruide Plach bead flow amon the road right in front of me. It uttered a lot of single "fecces" and "freezeee" Notes in flight, and then continued to que the name notes after it landed, out of right, in the lumbes. After it bad landed, it also ritteed a few doublet notes "fee-seccesee" when it began to utter "foo-ceesee" number with the ruide ones. Then it began to utter "foo-ceesee" Notes. All there notes were ulatively dear and when the like, and at least moderately lond. The brid continued to utter "foo-esseesee" Notes for quite a long time. They appeared to be eneutrally number notes, repeated at face distinct and rather regular intervals. Comme ga:

I could never get a good new of this beid while it was utherwe, there notes, but it was obvious (from the round of the notes - and from the

Jour glewipies I ded manage to get) that all or west of their water were uttered when the herd was on the ground or (lengeoleably) when it was in low bushes very close to the ground.

Notes wight be the rows of the years; and I tred to tred down the livid by moving through the bushes. Hus apparently frequenced the brid It immediately fell ribert and moved away from me Then it started to utter "foo-escesse" notes, as before, about 10 yes fronther away.

not be a form of alco — and wighet suggest that they are not hotele.

are! I never careful the brufest gloupse of the boil atterness there notes on But the area from whence the notes were coming was an area where we sa.

wa pair of Black-headed attapetes a couple of days ago.

It introducted flew into a meaning brush, and, after a brief passe, bugan to utter "foo eccesses" Notes juit like the other birds. Again, I couldn't nee it while it was actually interwes the notes. This bird gradually moved off through or under the brushes, still interwes the same notes as it went finally, at a fourth upot, I heard identical "foo coesses"

Notes, requir coming from low in the negetation of the ground. I am nove that this livid was not aware of my presence for a long time. It not or stood in the same upot for at least reveral number, ultering the notes quite regularly. Organ, I was mable to see the wird. When I mo ved forward to try to get a glumpic of it, it immediately fell releast.

Cell there windents mould indicate that the review of swigle

Loo-cocecce notes are really the "adverturing" roug of the meries. This

attapetes, Jun. 2, 1960, TI.



unally produced by thurserting of rome pairing and/or revueldrine (s) It is probably significant that both levids I saw juit before they began ultering "Loo-ceceses" hotes, or in the intervals, between notes, wen apparents swigle. The Hellow belles were surgery ever more whenswell their morning. Quete commonly until well after 7:30 a.m. The unal variety of rongs for the birds of this erea. Still without rattles. The length of twe the winds swig bere would negget that they are more advanced in The breeding and the the lunds we beard on Ceno atraces or Perliages the celerence of the presumable hortele rattles at the end of rongs is merely an indication of a relatively adversed stope of the cycle? I bleard lots more CN's and "greetings," lelie we heard before uttered by grate a number of brids this monning. Most frequently uttered by nome levids wheels appeared to be moving about in a party of 4; purleapra fairely party. It is my impremier that both the CW's and the typic al greeting rounds are unally most common in much parties. Junie I beard one build utter rowe more duturcture rounds, app dreutly as greeting when it joined its mate Mispemlear greeting was a real "warlike", a vez raped "Tit-it-it-zeega-zeega-zeegazeeaa. Perhaps a peinhar combuiation of ordinary CN's and typical greeting notes ??? The bell of this yours is really quete large and theels - for an att I noticed this worning that the feathers of the nown are really con Juvous reparated during (R's. Mis afternoon I heard what was apparents a Black headed all apretes begui to mue around et: 30 p.m. Mouth " foo-careere" "Water, int

erminged with an ouamonal "fecceace". Lutering close up, it was appay

autapetes, Jun. 2, 1260, II.



lette "Ja-100-ceasese."

Juconvection with the song of the Yellow-belly, it was be require aut that the unal rought the anderen francous bere is a whintles

Jollowed & a rattle.

One way be not too dutantly related.

allapetes, I.

Ceno Pinta

It is beginning to look as if this species may have almost as many defferent types of "rong" as the Yellow-belly.

Swonder if the extreme noftness of the roness of the Yellow throats runglit be explained as followers. They are eneutrally followers in mixed flocks. Perhaps disadvantageous for them to attract other spenes - nather than the reverse. Their or grand song may have been loud and Psellioph ones elle. But, as the Bull tanagers seem to have developed a pointine reaction to Pselliophores rones, the Yellow - throats have had to medil

altapetes, Oct 3, 1960, II I a their rouge nowellow. Probably reduced the Concluers of their rouge, unterel of developing a defferent type of Couch song, becomer our loud navalenteon is dittuetteet to other speces, to some extent (even apart from ruch yeard read win as the Burk tawager > Prelleopherus reactions). atteretes, I October 6, 1760 Ceno Punta I was walling through nowe badly out over old focut, with a lot of low and there sureller around, when I middenly sow one yellow throat tropping around excitedly in a tangle, about 4 ft of the ground. During this appeared it frequently assumed a real St. Porture Comme ga Poully bead every more wearez vertical Looling very long and their not rever about angle of tail. Voully. straight down. Possible more in live with head and lody. Probably variable like the high poulion during int mov. This Cooled was much of Slight bowers, but was much mon exaggerated During all this hopping about a St. Portures, the livid uttered a cont unous series of relatively very loud ECN's

& as far as I could tell, its will did not open and done with the notes

It was difficult to get a clear view of the build during this performance but it did not seem to have the different trace of CR or any vort of throat fluffus. Rather surprising.

there was another her'd about & fit away from it. Also hopping about, and frequently arruning extreme ft. Pastures. But apparently release throughout. During all this hopping about, the two hirds unally managed to stay faming one another, a supplaying their yellow throat patrices to one another. Then the second hird suddenly feew at the first, and there was a violent cout art fight between the about, humbling about in the air. Both rem award absolutely release throughout. No trace of R or HAC. They both flew away and were cost to right.

The fact that the livid who was attacled was the one who had been ettering ECN's anglet negget that the ECN's are produced when exame is at least as strong as, or even stronger than, attack.

In any care, one of the hirds was back in the same targle after a few seconds, hopping about, arruning It Portwees, and atterning ECN's, first like the first herd before the figlet. But it soon flew away again, presumably because no other hird appeared.

attapetes, I

October 17, 1960 Cerro Printa

Both the day before yesterday and today I heard allayetes type rough coming from a bedge near the great bend of the road. Doday I finally managed to me the livids. They were chest mut Capped Brush finicises Both the day before yesterday and today, the livids I were ringing when I anived in the area, around 6:15 a m, and continued for about 15 minutes (dawn

altayetes, Oct. 4, 1960, IF.



sough are aleviously characteristic of built-inhabiture fuicles, both atta

all or most of the rongs I heard the day before yesterday were more or

les connue ça:

"dul dul - dul

dul dul trececco

When I first arrived this morning most of the rongs coming from the

duch to receever to v

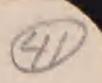
Then one of the mingues birds (pulsayes the oal, one who had been single in the bedge) flew anors the road. Landed in a thirteet, where I caught reveal dener views of it. Continued to mig at few-second intervals. In posture comme con

verz courperious

Loobungquiteplump

Obviously very lettle ritual of used. Only very displit trace of CR and Hoff.
After flying account the road, I think the bird continued to with rong plus
ares just lilie the ones it attend in the hodge before hand.

Surprimez enough, mother boid in the hedge (presionably the mate



of the bird culio flew across the road then began to suig in response " to the lurd who had flown anon the road. I think this record bird's rong phrases es were more or less wants leter those of the first.

bad flown access the road continued to rung frequently. By this time, however, I noticed that its song phrases were slightly different Course in:

"duk duh duh duh "

Elle transcriptions of all there rough way be regently nurleading more respect. all the motes afall the rough by both burds were three clear, bugli, whis

thes. Very unimiscent of ECN's in quality.)

This continued for at least 2 or 3 minutes Finally the record lived fle anon the wood also, and landed about 10 yards from the first. The first immed cutilly stopped mugues. Then the two birds hopped toward one another, through the brush, and presumably re-joined one another, although I could not me them are more at this stage. Perhaps right frautly I did not hear any soit of "queting" some when they presumably met.

This vicident would regget that both the Found of this years can

suig but that one my does so more often than the other.

It is obvious that this years has a great variety of different types of

vous like related years.

Mui afterwoon I desturbed a pair of yellow-throats, coming upon them nother inverportedly. One bird stood in the open and watched me for several requests, Frequently stood in the parture dearwn on p. 4 above, with enturie CR. Also made out, mov. of flight bowing movements.

Mus bord was obvious green about me.

allayetes, I

October 9, 1960 Ceno-Punta

In very notes of Oct. 8th, 1960, on Perspetes, I wegested that the Gyellow throated Buch fuches might also be buseding at this reason of the year. I should add, therefore, that I saw a group of 3 yellow throats moving about I together this monning, near the upper parture, for they presumably are not bree I have now.

III parture do not join the nurch flores.

attapetes, I

april 11, 1961 Cello Pinta

I have caught a few built glumpues of Yellow throats, unally or always rolitary brids, from twee to twee in the course of my observations of other species devines the last 4 days.

The morning, I naw one Yellow throat carry un, reveral times to a built very near the next of the B Yellow throses the yesterday's not es on Pulliophones). Quite ident. Not accompanied by mate.

So it recurs blue that all or most of the Yellow throats around

lieve are reiting nour.

Mederday money, just at dawn, I naw a migle Yellow throat netting nery lugh, on an expected have branch of a tall tree, mean the area where I naw the Yellow-throat mut building today. Sat there for at least 5 minutes, in an approximity invitualized porture. Apprently rilent, Alex is the only time I have ever neen a Yellow-throat no "expect". Quite reministent of foots-capped Buili-lanagers.

altapeter, apr. 11, 1961, II.

(43)

I couple of doep ago I wipued a Yellow-throat in a thulet Mending ni an arthenie St. Poiterie. Quite lele the poethere drawn on Oct. 26, 1960, p. 38. Quet thwat more fluffed (evenly rounded in outher). This poetarie may house lieu intermediate between the St. Porture drawn on Oct. 26, 1960, and the porture drawn on Man, 12, 1959, p. 4. No CR. The build was defrutely quite illeut as long as it remained in this porture. They it flew off and discippeared from right I don't hnow if this It, was provoled by me or by rome other burd(s) mitte neighborhood. Musafterwoon much to my mornise, I naw 3 yellow throats I moving about together, without any rigus of hortilets. Does this wear by that some built of this yeares build at different times of the year here? I also myrued one build in a buch. It stood quite close to I me ultering lots of band "Trit" CN's Verformed a number of riegul ar and unrutualized Cooling howing and pivoting movements. All this & well suit respect CR and Thy. atterpetes, I. april 13, 1961

Ceno Punta

I came amon of pair of allestruit capped allapeter early this morning. The theelest about half was between the upper parties and leno Punta I shall well this pair "A". Ally request to be quite tarue. Sperit most of their true feeding quite close together During feedings they fleiled leaves ande with their bills and pulled at food with their bulls without fleiling. No sautthing leops That of the time I walted the buils, one or both attered faint but heavy "Fit" Notes. Here way have been CN's or allan's.

(I rather think the latter.) Every one in a while, one of the birds would hop clover, abviously to get a better look at we. At nech times, it had a more or less extreme CR, and Calmays or almost always extreme Flifly. At much times, it also tended to perform a few meighear lust rather invitualized looking bowing and privating movements. With quite extreme WF's and TF's. (I think that both the WF's and TF's of this species are quite like Prelliophous.

The tail was certainly also speed most of the time the livid was were rue.) The bird continued to after "Fait"s as before whenever it came close to me.

notice avere of "mark"

- Body probably too muall

Part of the time the best was war we uttering " Firt"s, it best the nece retracted Looling very plump and big-brodied. As in

drawing above. It remarried in this portion ever when it performed elight

Only once or twice ded the brid perform bowing which was alm out as or theme as nome of the Bowing of assimiles and Peropeter I have new at nucle times, the neek was definitely iteleted. Lee deaving on next page:

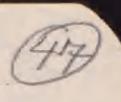
alterpetes, apr. 13, 1961, III. High how poitere Later in the monning, I unddenly became convarce that one of the Chestrust-capped attapetes was "ringing" quite loudly. Comme go: Za-welleele za-welleele za-welleele Repeated again a again. The record note of each doublet had a definite rattle undertoice. Much stronger o londer (almost pure R) in the recon I riole of the Court doublet. Mufortunately, I could not see the bird well while it uttered this notalization. I was, however, able to determine that the livid was perched in a taughe of vines, at least & feet above the ground, while it uttered this vocalization. This is by far the lighest have ever new a Chertunt-copped attapetes. The luid also received to be alone (I don't know what happened to its mate). But then a mid den accual chave and figlet developed! I couldn't cately the details of thes. Certainly involved a beids. Certainly one Chestunt-coppled an It possible another alestrut-appeal or a fly calities I) du fairly certain that the livid uttering there "3a- mececee 3a-weeeece 3a-weeeceeece "vocaligations had considerable Myll, and it probably had some (Ralio,) Both levids of the pair were back a few runnites later. Behaving

attepeter, apr. 13, 1961, IV.

(46)

11 9 g as before. Then one wind flew away into attribut across a rawice. Immed iately afterneurols, I heard a veriein of nather variable sone phraies com må from the thulet. More of Cers comme ca: "Ta-3 receeses ta-3 celecere zerecere " or "Ja-3 recerere ta-3 recerecere" of "Ta zececece zocecece") du certeur that there rougs muit have been uttered by the Chestruit-apped. a few minutes letter the bered that flew away was back, appro activing its mate by hopping through the thulet. "no "greeting", except (possibly) a rowerwhest accelerated revues of " First " notes. Later in the morning, I heard rome sounds coming from a theretet about 14 of a mule armay (i.e. certainly not wellen the territor y of the pair I had been wateling earlier) which appeared to be another type of Cheetweet-capped roug (although) never new the beids). More orler comme ca: "In 3 recee 3 receces 3 rececese" alle rome times "La zoececce zoececce zoececce zoececce por zoececce (The "my " stands for a rather founder Funter). All the Chestrut-capped sough I heard this monney were then, high and whispering. All quite faint, except the notes which were Mouses minum They round any they might be "uper rounc". The Chestruit - capped and yellow throated allagetes reen to be quete well regregated where their ranges overlap in man areas. The Gellow-throats seem to prefer theilets in fulds which were cleared arry recently (where the thecles are not over-madowed & trees). while the allettent-cappeds near to prefer thechets in fourt and woods But still the 2 years come into contact with one another quite friquently I unagrue that Perspetes with strongest competition of the Christnut-capped bere

allayetes, apr. 13, 1961, V.



Incidentally - I forgot to wention - but I suppose that mo it of the "Ta-3 see eeee." Notes I wand today (at least the ones without the rathe undertone) were the same as the notes I transcribed as "ta-receeeeeee" and "tuly-tereceeee "kelove.

attapetes, I.

april 14, 1961 Ceno Punta

This morning I wanted the same pair of Chertunt-copped attempt as as yesterday. Beliaving in much the same was as yesterday.

One bird became reparated from the other while they fed. It flow anous an inigation channel). The bird which left its wate their started to utter "rongs" Quite variable; but mostly comme ca:

"Ta ta 3 cececece ta-ta".

The last notes (the "Ja-ta"s) were usually louder than the rest land lower pitilized than the pureding long note).

Sometwees the bend ultered "abbreviated" rongs. More or less com

Mil ca " Zeconoccea 3 encecce"

Hure was a faint rattle undertone to some of the "Zeecece"

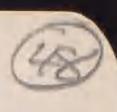
Thates in both types of songs.

all there vous were accompanied by some CR and Hiffy but this way not have been very rignificant the brids always reen to have some CR and Thefly whenever I see them).

Or ni the case of Philliophones (ne todays notes on P.), I would on I the Cong "Zececece" Thates ni the "songs" of the Chritmet-capped atlagetes are really exertially SN's?

Later in the monning, the 2 livids of this pair of chestreit copped breame reparated again. One of them mimediately began to suing more

attagretes, apr. 14, 1961, II.



bave beand other Chestruit-cappeds mue on previous years. Lots of their breek "Zeoseeeeee" Volte, and also lots of shorter "dule" or "ta" notes. Somewhat variable in anaugement, He appreciable nattle undertone. Then the besid same closer to me, continuing to mig all the while. When it was quite closer to me, its rongs became "Jut that traagagaanh"; Lequently repeated. With a definite rattle undertone. Then would certainly confirm me, mi premion that the rattle undertone is evenitiably hostile.

as combinations of CN's and SN's, with R's in rowe cares.

alla peter, I.

april 15, 1961

Wateline Cero Panta again this recoming.

Jamied rather early (ca. 6:15 am.). and found, much to my surprise, that the Yellow throated attapetes bara "clawn song" were much like the "Keeyoo" fong of the fangre de Toro the Whew" fong of the Buff-throated Saltator, and the "Keer" fong of the Straked faltator,

Jettiei heard 2 defferent Gellow throats ultering "Lawn song" in 2 defferent pla on (less probably) the name brid ultering "Lawn song" in 2 defferent pla as, quite far apart from one another. In any care, I heard 2 long bur its of this "Lawn song". I did not me the brid ultering the front burst to burst burst burst burst burst burst burst burst burst were uttered by hered so perched fairly heaft (5 - 10)

(49) attapetes, apr. 15, 1961, II. I feet above the ground) in very thick shrubberg. Not exposed to public Both lewests of "dawn roug" were the rame. "Keeyah kew I keeyals hew heeyals kew keeyals hew keeyals hew keen keers als kow keeyah kew kew beeyah kew 1,111, Indeterminate in leveth Eventrally a regular alternation of "Kew" and "Keeyah" Hot Jes. "News rometimes repeated truce mittent intervening "Legali". I I think that the "Kews were sometimes or unally begins pitched than I the Roegali's Commega: "Kew keeyah keen keeyah The Yellow-throat ultering the record ownt of "dawn roug" their a porch for a few recouls, but would their hop from perch to perch for & avolute, before retiling down again temporarily. Out is possible that the Is build was duterbed by my presence. From the round alone, I think I the verd alterney the fruit beaut of " down rong" not still throughout The most peculiar feature of the performance of the levid uttern regette record burnt of "dawn song" was "wing-ruining" ("WR") as it hopped through bushes. Porture of livid altering "dawn roug" Crown strype Slight Hilly Whole lived Cooling large -& braded, with resort, glump body

Tail probably

Januel.

There time the best attered a note (both "Kew's and "Keeyah"s Is it raised one or both werep. () thusk both, but I can't be never of (Steen). Thes raising was one rlow, stelf-looling monement. Sio. S. The wrige(s) raised well above the level of the back (and probably he Edout too , but I couldn't ree this from my point of wew). The we & ug(s) were apparently closed, and folded away, completely between m accurate notes. The livid did WR hoth when it was perched and when & it was moving. (The aring on the ride was me looked devile under I really when rused, but the way have been an optical illurion) Upart from the WR, the livid ullering the record burnt of "dow I u roug ded not perform any special returned moneurent. The down & roug" was accompanied by CR and rouse Diff (which were apparently & maintained between notes and WR). The beid looked big-beaded, with & a revall plenup body. I think the teel was kept roose or len formed throu great Ido not remember noticing any TE's. The hird neural to be more or less brunched throughout the performance, but I don't know if this was ritualized or not. and from this right "hunding, its portion es appeared to be curitualized ulting a hopping portives. I think this WR must be cloudy related to the Gof male Brown capped Built-tanogers during their early monning "Fuet - & purjoin auces (the Brown-cops also ruse the weng alrove the back during the gof theer "down rongs".) The birdes) uttering both the burnts of "dawn rong" this in couring appeared to be quite alone, without any mate in the mighelion-Good Hur is what would be expected.

Of the "Lawn rong" of the Gellow throats remed to be over by a steer would be over the beid is again later in the

attapetes, apr. 15, 1961, III. (50) I also wateled some Chesturet-copyeds their monning. Probably always the A builds. When I joint annel, one of the Mentionet Cappeds was rittens by itself low in the derubberg, aftering the and huid of roug "Da-a-zererere zererere and "da-a-zererere zererere zeecececece " repeated at length (the 2 types of phrases being from Oled was apparently randow order). The livid ultering their pheroses recued to be reparated from its mate. I beared there rough before I beard the record herest of "down roug lette Yellow-throat (ne above). It is possible, therefore, that this species does not have a special type of "dawn roug" like the Yellow theroat, the sangre de Toro, and the Saltators. Perhaps more lesse referrella in their regrect? Later in the monning, I now one of the X livids become report et from its mate 3 times. Each Twee the nolated Cwid legan to sing numedialety. The way were slightly different on the three occasions. Once the bird repeated We to zooceocooc to - zeececece" pluranes. The record time, the buil repeated " Da- 300000000000 Fazeceeeeee Du-zeeeeeee phrases. The third time, The wind repeat ed "In ta-zececce zececece phraics. It is oliveres that the rongs of this yreces are quite variable, withen rather reason livets, also, whenever a virid beguis to se ver one type of plerace, it leads to repeat the raw type throughout a who le bevest of roug. I thul that all the "3 receeeee " notes of all rongs may be rea elight rattle andertone; but this undertone is always very wrons pureus unless the levid is obvious & house. The TE's of this species are always or almost always V-D,

Altapetes, apr. 15, 1961, II.

(50)

always with a strong Cateral component. When morning about no swally (unduturised), the birds perform few or no WF's (I mag nie, tromener, that the spenes may perform WF's when "upnet"—
Celie other break frickes.)

attlapetes, I.

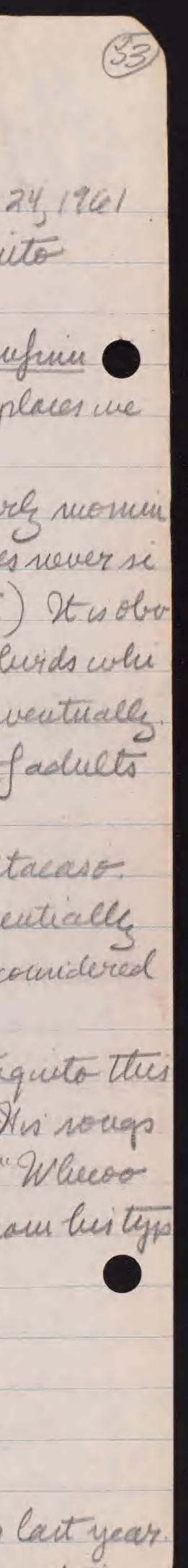
april 16, 1961 Cerro Punta

I went brails to the same place again this morning aniving a early, around to :10 a su. When I arrived a Yellow-throat was after my "dawn song" in enacte the same upot I forest heard the "dawn song " we enacte the same upot I forest heard the "dawn song " She word was very well budden, and I never even a caught a glumpse of it. The song itself was exceptly the same as the one I heard yeterday. "Kew"s definitely higher pitched than "Keeyali"s I foundly flenhed the surging levid, without however, actually raing it. Then, a few meonds later, I heard a Yellow throat ultering the "dawn song" in exactly the same place I heard the second hwest of sing my yesterday. But again I was unable to see the boid. It finally stop ped mignig without surgener eatitive, a glimpse of the Men, a few summites later, at a 1314 a m. I saw a Yellow throat perdood in a quite high exposed position (about 15 feet off the

ground) utering a few "scattered" "Hew" and "Heeyals" Trotes.

Comme ya; "New ..., Keeyah ..., New Kew ..., New Year and The Cowert intensity we resion of the dawn rong. With CR and Thefelf. Bill opening & clos mig with each note. No WR. One WF with one of the notes. Then the

Ovid flow away without doing aughtung more.



alterretes, I

May 24, 1961

During the last few days, I have recuguite a lot of sufrin I ha wear Hono, wear Inaqueto, and on atacaso, in the same places we now them on previous years

I have neu a lot of o's migues alone, both in the early memin of and in the evenings. (Dancertain now that of softhis years never se regereept when they are unwated or reparated from their water.) It is obv wus however that almost all the wids are mated now. The winds who ch sung unally or always your, or are joured by their mates eventually. I have even new one apparent family group. A pair of adults

followed by a (dull) juvenilo!

I have only itredied the rouge at Quaguito and on atacaso. he both places, the mouning rouge of all the lurids were executially "Wheeoo wheeoo tut-tout-trut" This is just what I coundered to be the "baric sheleton" of the rong last year!

I thus there is one refinedle migues at Thaqueto the year. His rouge have been quite remarkable sterrolyned. His rouge howe never included Rattles. He unally atters the typical "Wheeoo wheever tut-trit trut" and nothing else. I would diagram buility ual rouge as follows:

Mus'is nomewhat different from my diagrams of typical rougs last year. The only variations in roug which this bird has shown this year note, reglet after the first two, and/or the occasional omission of one of the terminal "Firt" Notes.

My at least three livids began to utter Typical "Whee or who so that trit trit" rouge. Again no Rattle, Then, a few minutes after down, rome or all of their began to add Rattles to their rouge. Comme ca:

"Whee so whee so chip chip chip morning."

This difference between the rough of the Inaquito brid and those of the attacks brids is the name as last year. Last year, I waggeted that the aicorporation of hostile R's into the rough of the attacks brids was an indication that they were comparatively retarded in the breeding ayole. This may well be true of so, the sex or pairing driver of the ata care brids this morning must have been relatively though a few records later (This is probably not surprising. I think the brids start to move ar own of lut just after dawn. They way their become more conscious of other of's in the very blevelood.)

I have reveral times beard of rufunctea singing as they moved along hedges or through thickets. This tendence to ring while moving in ay be a rignificant recomblance to gutturales.

The only lived I have been able to ree very well while migring is the magnito lived. fleght CR. Bill opening and closing with each note of the rong. No trace of wing movements like those of gulturalis.

I have been paying special attention to the Call notes and sim

lar notes ultered by the birds apart from rong.

Both migle livids and pairs rometimes utter migle "Frit"
Thotes when they are leopping in thickets and/or flying. There notes are

sometimes regreated quite rapiells, but never, apparently ancentry to a Full. I thule there "Frit's must be ordinary CN's or alcN's.

On May 20, wear Mono, I watthed a pour of birds feeding in a bedge around 9:10 a.m. One of the brids uttered a reries of facility boarne, rather bigli-pilitied notes: 3aa zaa zaa zaa-zua zaa-zaa zaa zaa zaa zaa-zaa-zaa. ... alwest continuously as the be

nds moved along the healge.

This evening I observed a rather similar performance war No no. Algain watehwe a pair feeding in, and moving along a lieslage (this way have been the name pair observed on May 20). again, one or leath of the levids uttered faint, hourse, ruther lugh-pitelied notes as they moved. Unveilly the leading bird, I thinks. But I transcribed the notes tonight as " feece seece seece seece seece. ") thule there notes must have been enoutrally the same as the notes heard on May

I frist beard the "feece" Hotes this evening when I was nome distance away from the livids. When I went clover, they stopped utter my "feece s and began to utter " Frit's. A few munites later, presu mally after they had become used to me, they writiled hack to "feece s

Mus mould regget that the "Trit's we all as,

There "Seece" and "Baa" Thotes nound very much like the greeting notes I heard in 1940 and 1959 (nee also below); and they must, Ithrish be closely related to the greeting "notes, Mey are also remunscent of the SN's, PCN's, etc. of other years, I there they muit be wed to call in, or breep in contact with, the mate.

Mey are unorhably number, both in round and (mobable) Content, to the "Seece" and "feece " Wolls of the Dulumas I have

been studying

attapetes, May 24, 1701, II,

(37)

May as One sufmirche was migrue, in a healge. Then he widdenly flow up, uttoring "List test trit...." or "Jule tale tale....." Notes, and flow to a bush reveral yards away, where he landed benile another sufmirche. Importanately, I couldn't me the birds in the bush lust I beard a lot of "Zeece" Hotes o R's coming from the bush immediately after the Flanded. Then the of flow up, purched in a tree above the bush, uttered one long R, and then flow back to the healy, with "Just"s or "Duck"s as before. A few recounds later he began to must again.

Mus vicident might suggest that "Jit"s are just place host.

attapetes, I.

Ceno Pulmida

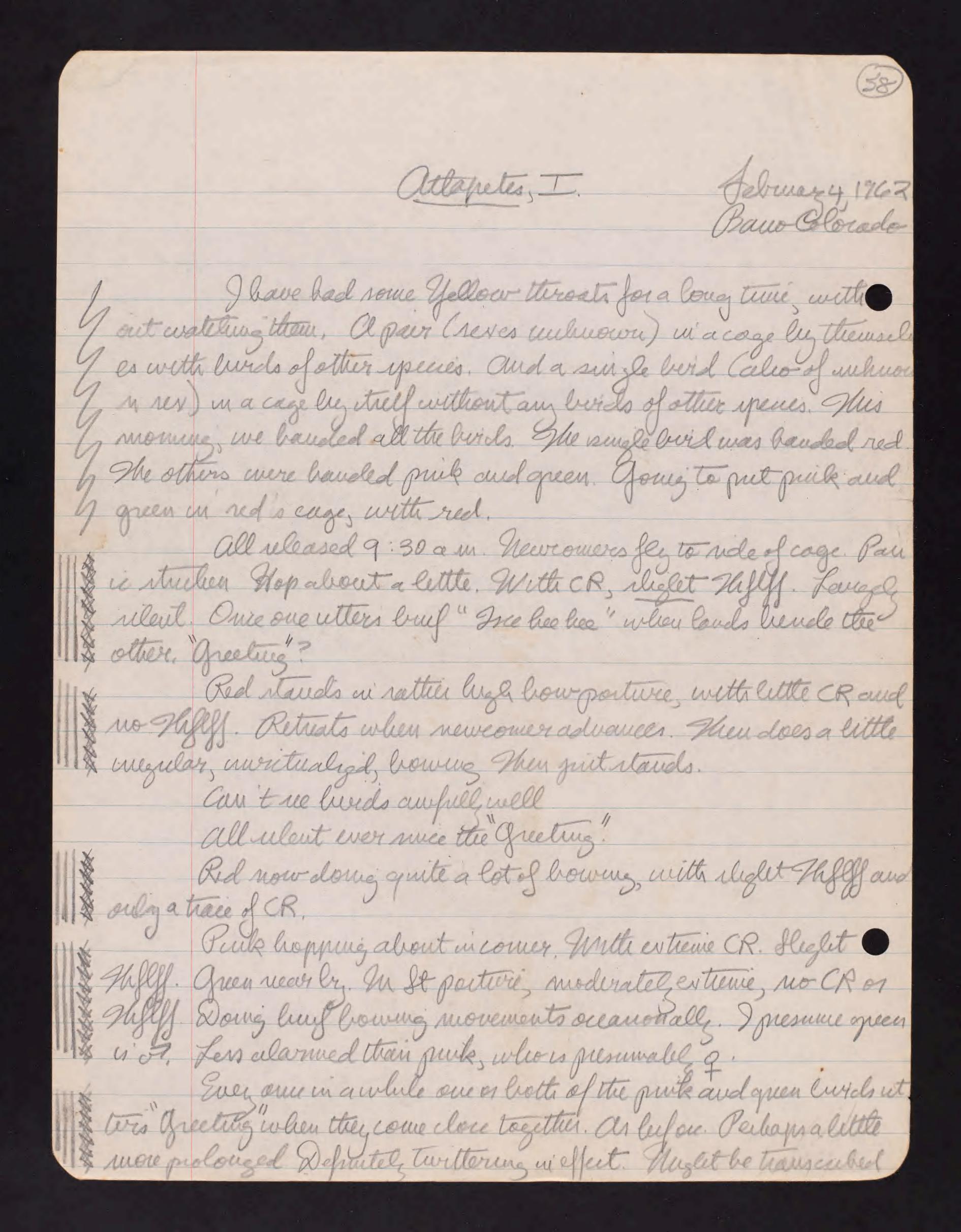
Observing near hono again this evening

I heard a more "excetings" between the members of pairs
of refiniclea. Definitely a deffecent pairs. Each time the "greeting"
was uttired by only one bird of the pair, when one bird landed besi
de the other. I was not able to tell of it was uttired by the landing bir
d of the bird landed beside. Both greetings were executially similar.

"3ee wee 3ee wee 3ee wee 3ee wee" One much louder than the other.

I should atten that their greeting" notes were quite clear and
band. almost semi-R. Het at all boarse. S. E. nuch "greetings"

are probably not strictly homologous with the GHAC of other species.



as Whee whee whee whee whee Then a few more abbreviated greetings" Whee whee whee " or "Whee where 3-note type most common. Red still puit standing 9: 40. Very slight Hifly and even elighter CR. Making occurrenal bowing movements queno purts put flying back a forth on far ride of cage Buik still with en theme CR, no The green with neither CR nor thely. Green not really in ft, when perched between flights. But oursionall points bill diagonally upon and (while reit of Gods remains as in ordinar perchang porture) when pe I rele comes close to (him). Red then spends most of time purhing at ba greetings are not ultered by price and/or green whenever they & come together. Apparently uttered oul when open lands hunde prints. 1 & Grobable uttered by green. The reacteous of the levids no for would indicate that CRispun arely der expression of escape, that Milly is more aggressive than CR, that both CRand Phills are probably low internets that It is probably fair by lugh whenself and well control an appreciable attack components and that preetings we probable whited by a strong escape tendency. Judden bruf fright 10:00 a m. alemal chase. Con tree who sta reted it or who is unvolved. Quite whent. Breaks up munediatel. Bir do behaving as before. Bed still howing. But no CR or Thifly I Guarouel eleglit gaping, but this is probably pauling Sail famuel * Legs flexed (bruses muble)

attapetes Feb. 4, 1962, III & White cown stupi just borely visible (if at all Low Bow porture not unally as extreme as this (but probably rometimes more so High how youtwie is eventially similar to It except that the Jeather's of the hell, are not smoothed flat in the high how as they are in Behavior of livido still exentially unchanged 10:15 a.m. I thule à greeture à uttered ever true green jours prute. One of the birds (Red, I think) ou anouall utters mugle ECNtype note Doen't new to lead to anything, Puile (ne) supplants red, without obvious reguis of hostil I think red is low man in the hurardy lint it doesn't men to be too uput by it all. Yes, it is definitely red who is uttering the ECN's Front view CR

attapetes, Feb. 4, 1902, IV. (Q1) The of the green a paide pour rudder puelisup lovege leaf and I starts to fly would with it!!! Felent, Then diops leaf 10:45 Then does it again a again It is green! Zouls time eventu ally flees to jurich where red is. Red flies away each time. Then gree n nands. Thurself in more or less extreme It Itell holding ment wat ereal in Oull. Make occasional new rapid a bruf down ward howing neverents. Then flies away a drops um. Allquite ulent Leg are extended as much as pouble in ft. Mus is probably an other defference from the unal lugh how pointure) (Correction. One the n.m. prelid up by green was a trift of dry gran, not a large leaf.) Ourles Ver rapid Guette land time green lands. Hus is beginning to look houtile, proud houtile! Develops into something very like a

They green loops after red. Green does bruif It. earle truce it Couls during this! Pursuit ilower than previous purment of prule. Elent. Then green goes back to hopping after pulls, well "quetings Trule has trept CR all the true it has been in this cage Green continues assuring It. Portures bruff, Cumally with buf downward bowne monements) while all 3 buils feed on ground four earliest difficult to tell just who there are directed to, Frather presume Red. Don't reem to provolean regionse 11:07. Goes back to following price. Selent. To display. Pull excapes each time green comes close. Rapid flight after a while prick seems to

get tried. Doen't always flee when green approaches then green put

stands was pule, making more or len inegular lowing movements, with

attapetes, Feb. 4, 1962, I (69) out duplay. But chase always resurred again shorts Gout of the eage Put in a Carege cage with other years. attapetes, I Jebuar 5, 1942 Barro Coloroclo anvie in front of green a red cage 6 30 a. m. In blind Still too dark to see much of cage. Can they see me? They start to what a little 8:40. One or both utterwis sceanous ECN-type notes. Boids not unally together Julinyted by boy collecting food derles 6:48, (Both boids still greatly pre-occupied with their hands One more or len following the other, Hopping lowly. no displ ay. Fooler as if they are more or less friendly. Then both nit. Then one adv alues toward the other (probably neversing original following role). The other livid retreats immediately. Rather rapidly. and atters & long greeting phrases as it does so! Quite defruite. Mis would ma gest that "queturgs" may contain an appreciable escape component I wall call the greeting phrases "Wel from now on. This turns out to be prute and green in the cage! Ho won I der that they iveren't behaving as expected! Take puils out put red in 7:30 am

attayetes, Feb. 5, 1962, I (63) Red flees to comercage. Does a lettle Crowing. Hifly (9 think) Quet no CR. High how portwie slightly &t- Celle Chell and head nearly rentical, but not body), Open bowing about & It away. His lig In how portures are much more thoroughly St. Celie. No Highly. Both livids quite relait Opecu's It-like light how port was rather curred and elagent -Body rometimes much Cooling. Trick perchaps not great more neares housantal ly elongated, but front part of Gody Cooks long. legs not stranglitered Red's body glunage is not ilected down during the bowing but the whole front part of green's plunage is ilected down very flat during to pulk at his rung in the intervals between bowing. Down phases of green's bowing always much buefer than 11 & lugle phases Still not much change 7:55. Red has little or no Thefly no an all or most of its howing 118

attapetes Jel. 5, 762, The low interest lugh how produre One type of low bow musical? Head wells nearly horizontal 1 & were as before in corner!! Drops it almost unnediately, and still contin 8:05. Open ouarronally supplants red. Red always relies & unwedialet. Green statuels, hows as cinal Citil It-like in bugh portured Then goes beeck to old station and continues as before Cheen pedes cep. n. m., rapplants red, continues bowing, with u un at ute where red was howing before being upplanted. Then fle es away. Itell caruying neru, arides around red, at deitauce of 2013 for still bowing a carrying um. Then red down to feed green follows Then both aurials back to old rites. Beliaving as before quen & has loct m. m. romewhere

attapetes, Feb. 5, 1962, III



Annals stell very active all the true. Including red, who continues bowus steaded when not feeding or alway supplanted.
Red's howing reems to be always completed invitualization annuals durined when food brought 8:37; but revert to old behavior almost munedictely. Red terests to have tail more farmed than green during Crowing. I bean occarional ECN-type notes during this behower but Lauttell who is alterne their. I think it is red. as red doesn't ne Is un to be respondence "positively" to green, this way an an widication that I ECN'A are purcely houtile. Greet repeatedly repulants red, 8:45. Carrying um in bell Does beul bowing, wheelines, between nepplants, but most repplants, follow too rapide one righer after the other to permit their of requery of ECN suiceaues during this change. Red recus to que them juit as she escape Men berds relov agani. Belaving as before. Men myplanelines itants again. Mis time green not carrying n un Theu be does puloup nous and continues supplanting. Red ult eres ECN's while escape. Olio when bowing between escapes. 8:50. queu does little bowing beliveen myplants while corriging in in. and the Crowing movements be does make are not extreme. Reds plumage is more elected Callover) when the bour letween repplants than at other times gutereitung enough, no CK Muys queter now 9:00 a.m. Red on perch. No bowing, Green on ground, feeding. Then green up. Back rupplanting red. Algain and again

attapetes, Feb. 5, 1962, I 66 11 Both with and wethout u.m. Still hows vegowing between uppl auto when not carrying um 9:10. Twice, when chave is most rapid, of escapes with EcN's whi ch might be transculed as " 3 receese ash" Latter part of will notes reglette HAC-leke. Does tagain 9:12. Obvious very lugh internity Goodevid ence that ECN's are houtile there cleares But his chares do new to be getting gradually if megulas 11 & le more rapid o violent. Dempo of reds ECN's also mareasens Quet again. Boul feeding 9: 72. Men rest, on ground. Leaving 9:35 a.m. April 15, 1962 attapetes, I Cerro Punta anvie were where Gellow throat was beard Dang last year I balf way between and renta and upper pasture) a ioo a m. Just beginning to get light. Ho Dang today Aluk a gair of Ufellow threats 6:30 am. Hyaway relently. Men eit in leuch, looling at me, making flight int. mors. * Silent No CR or Hills. Then disappear the Yellow threat is probably one of the species which De's com paratively rarely. Lette Yellow-numped Tanagar.

attapetes, I

april 16, 1762 Ceno Prenta

Working near upper gaiture this afternoon. 5:50 p.m. Juddeulz fluited a whole family of Hellow- throat & s, including 2 adults and 2 or 3 young with what tails and ye llow at the gape). Buch hopped and flew about nervouses in the I hurles. Altering lots and lots of their, lugh-pitched, moderately I loud "I seececece notes, intermingled with a few ilights differ I end "I seeceeaal " notes. Two types of notes intergrading, flight ly variable in length. Quite like ECN's but ilightly hoarne. If Some with a reight but definite natile understone. At is pomble tha t rome of the ECN's I have beard previouily were also ilightly how rese, but, if no, I certainly overlooked it.) There notes were certain by whered by at least one adult and one young lived (probably by all the burds of the group). The adult (5) brad extreme CR, modera te Hilly, and moderate fluffing of the underparts throughout the period the notes were ultered. But no Bowing or St! The young birdes) did not perform any retualized movements or assume any retually of partures while wellowing the notes, Just not looking generally fluffy Clilie the young boids of almost all yours in almo st all wintanees). The brids were certainly for more compriserous during this performance thai I have ever new before. Hotes wearly continuous for almost 5 minutes. There hourse ECN's were quite remuniscent of the "Zecceses

acel notes of Brown-copped Buile-tanagers.

altapetes, apr. 14, 1962, It (68) y very closely related to Chlosospingues There patterns are probably perfectly intermediate between the HAC patternes of tanageres and the their "eccesses" type hortile notes of Euleria up. described ly audrew. In the midst of the whole performance, one of the young liveds uttered a single notter weak, "Tuck" note. The only note of this type ultired. not accompanied by your portwies or movements The heids fell aludutes went, were abruptly, as soon as they got out of right of me (when they flew over a deuse "bredge" of taugled vegetation about 20ft away from me) Their vicident is another vidication that exape is as strong as, or stronger than, attucke when ECN's are uttered. april 18, 1962 Ceno Punta attapetes, I Working at Lewis's place this afternoon. 3:40 pm Auddenly come aucors what recus to be a boundary dup ute between Gellow-throats, 2013 beids. Uttering lots and lots of ECN's. Mearly continuous. Notes might be transcribed as " Zuececee or "Wheeeeece", One reglett brugg. also quite a lot of whost shares notes almost exactly intermediate between "Frit and "Fuck". There SHN's nometrices migle. Those often in brief revues, 3 (pourles 4) notes at a tune. There buil nevier no accelerated as to four use buil Ks. Komment of Riof Peranga in round. I thunk the R's were unally or always given by birds hopping from percly to percle, but pombly also by brids which were momentary Plustationary. The berids also did a good-bal of Bowerg during this

attapetes, apr. 18, 1962, I. (69) & incident Rather wegular not including real St. alwampamed by at & least nouse CR. Couldu't ree if Hafffalso present or not. May Eatlea xt) of the ECN's must have been uttered during the Bowing. The behavior almost certainly not provoked by me, as I hear & dthe ECN's long before) got wear the bereds. again Turis merpured by how comprisuous the birds were when atterned ECN's. It is obveoule riquificant, therefore, that this dupute "attracted" one Chestrut - capped Buch-frich and one Brown capped Buch-langer! The Chritmet-capped Brech-friels gust bropped along the grou nd and through the shrubbers in the direction of the disputants, With extreme Hill and CR, and a little migular Bowns. Apparently que to went attapetes, I April 14, 1962 Cerro Pinita Worling along rawine at upper border blanes therafternoon 3:05. Come auon 2013 Yellow-throats. Ithering lots of ECN Perhaps vaiting to me. attajetes, I April 20, 1962 Ceur Punta Working along ravine just above Tlanes this afternoon. Hushed a surge Chestruit cop 5:58 pm. The burd atters a ECN's as it burnes from the undergrowth, in flight. Quite belie the

allayetes apr. 20, 1962, II (70) ECN so yellow-throats, but not at all hoarne or buggy Men perches on living about 15 ft away. In couch. Mohing Bowing int, movo. also lots of TF's. Few or (more probably) no WF's. at first utters rerues of "Init" notes. They went, With ortreue CR and Hally throughout Swie does a general shake out of whole plumage. Of has been raming here recently - no there whate outs way have been autochthousers.) Then flees to another perch about toft farther away. Clercus perches in wouch, with Bown int mous. TE's, extreme CR and extreme Tafff. Our mone general who alreadt of plumage. Quite uleut. Then flees off and disceppears. Mis incident would suggest that EIN's one ligher internity Than "Frit "Hotes, and that "Frit "holes are luglier internet, than releast CR and Philly. Probably all produced when excape itionger thay atteche, april 21, 1962 attyules, I Ceno Secula Worling along upper edgellanos and ravine thei morning. Out le 100 aus. , there is an out beveit of lugh their rouge which round as of they recifit be uttered by Chestruit-capped Built-fuidees Phraces like "Ja-zee-zee ta-zeeece-zeecece", Ja-zee-zee zeccoo etc. Con't we the birds ringing. Some apparently winterub been wear ground. Others moderately lugh in trees There rouge might also be by warblers. But I don't mow who Burnt frongs over within 5 minutes 6:25. auditer burst of roug. alisolately similaring quality. Comi

atlajetes, agri. 21, 1962, II ng from abrolutely typical cleartment cap babritat. Obvious neigle luid. Munues all "Fa ta- receeve zereceve" They followed by burit of their lugh- pileteral Fruitter or Wbl. Greeting??? Followed numediately ly more roughbrases as before Her wired puille fuiller and song pliraies. Then more song plirases alone. Then were runture your pluraces and fruitter. This someled as Justined les ougle berd first a song plicare, jollowed unwedistre ly a Fruitter. Ruemblance to Blue-black Gronbeak?? 7:10 Come auon a suigle Chestruit-cap. Obvious very nervous about me, februt. Does lots of Bowing Oughpointion much less extreme than in my diawing of last year). With extreme CR and Hifly Cat first gradualle declining later). allo lots of TF's. all entremely U-D and extremely certeral. all with Jun. (Fail romewhat franced at all time but were so during the TF's) atterpeter, I april 22, 1942 Ceno Gunta Worling at level of Cono Punta this morning (Fruit rite) identical plurares " Da-zeesee-ah-ta-zeeseesee" This true I can actually identify the lived altho I can't see it well. Ittlering phrases while Jeeding on ground. No wrige movements. Lettle or no CR and are cloud illated to ECN's? Does this wear that the rough of this entrat problematical!

allajutes, apr. 22, 1962, II. : 图 I think that there is counderable individual variation in the rough of this species. And that the rough of each individual are rather stable. Hus must facilitate ridividual recognition. Mus lurid sweep oul a few runnites, May 19, 1962 Publicha attapetes Worling wear nono their monning, annie at Leun. Heglit races from live to true Moving about nather nervous on ground and on very low perches Secreccet "Gotes. Former more prequent than Cather, apparently ullered ui sandom sequence. Judeterminate series: Ja-receccet to -rececceccet seconcect to seconcect to recent to recenerat to recent somewat recent ta-receccit 11111 General tone quite reminiscent of chertunt cap. Thuir lugh. Definite rattle undertone to notes. Engenally in "receeeest"s (in both monoryllabre and bisyllabre notes) Rhythin if song rather variable. Sometimes paures between motes quite long, formetimes shorter than notes themselves Mus rong is obvious house ogous with both rong of cheit rut-cap and DC of Gellow-throat. The mounting I get a few gluyrus of the beid actually sung mg Mually many one of a varuety of unrit, pre-loc, portures With CRand Hoff Bull opening oclosing weth notes. Sometimes auon gaured ly Huching, but no special wing-subveneuts. Pombly

attapetes, May 19, 1962, II

(73)

some notes attered while berd is actually hopping.

Song is very prolonged. Bud still attering notes Calthough

romerchat less frequently on the average) 6:20 a.m. Then stops a Jew recovels later, Home of this roug resurs to have provoked any response from 6:37 am. Come anon another sugle torquatus surgung. notes even more variable than those of frist buil. " Leseccet toreceevee ricevece - oo ta-recevert riceveet. ... " This time I Lou true the burd until it flees away (piglitered ligan violean). but it was obvious perched way the bottom of a thick healge alun 6:40. Have beril itarets again "fecerece - ut seece - ut releeve ut seecee ut seecece rece ut seece necee necece. again budden from my night offices again when frightened. Obmounts Come linet to area where I fruit heard toiqualtes sugues 8:40 am. apparently same brief etill surgues from a buill a few feet away from where it rang at dawn. Song composed of "feeceet and "feccecce - it "notes alone. Attered in inequilar burits of 3 to 10 or 12 notes, rather than continuous revies thufortunated level quite ludden. Musicopuld megent that "Fa- necesset" type notes may be builter niteurity than "feeceet" or "feeceet-ut" notes.

May 20, 1702 atauss attapites, I Jews feer feer type They I bear a few abbreviated. "Freezewoooo feecoo" types Herr one "conglite" song with & 5152 am Then a few more. all by for the rough of the beyon here recen to be just the same on on Other buil continue sough without Rafter fruit buil has legun to utter complete songs. 6:05 am. Ou buil reus to be attenting rouge comme a. Keegrale bee kali ka That builds ittll not uttoring R's at and of rong 6:07 6: 28 am. Fulling to our berd who uther both incompl Lite roughwettrout R and complete song with R. Hunly walter mation, In both cases, the record or butte, the fruit chort note, also Thurs to be liegher prietted their the first long note. Just as in the diagr am of " meomplete some numerically above fand the latter were certainly

attagetes May 20, 1962, IF. (75) Worling mar town of Flora this afternoon (on far ude of Pichen 4:30 pm. See a sugle nefmicha Perched on twig mahing fly ing wit, wous, With CR. Utterneg migle "Trit" or Dit "Notes, Very nost. They somed by wate. Don't ree or hear greeting, if any. They one build feeds, while other rits. Deedling breed nometimes close to mate rometimes 10 ft away. Throughout the period of feeding, the feeding wind utters weardy contant "Int" or "wit " notes Comme gu" Dit dit dit dit-dit dit di-dit dit dit dit dit di-di-dit dit dit-di-di-dit. ... There notes would appear to be real locomotore notes. This may be another recemblance to the BCBT. Of muglet strees the fact that the levels obviously were not alarmed by me durin of the period their notes were uttered.) Eventually the lunds move off but I can stell hear them wither ung fort or Det notes 4:48 pm. I shall call there notes just place "CN" s from now on. Buds buck in uglet agam 4:52. Beliaving more of less as before One of them catilies night of me and hops away. I think it was ed its west more those unal, in extreme CR, on it left. The CR of this up eus is provably also an indication of escape. around 4:00 pm. this afternoon, I was wallsing rapudly al ougapath above Floa, in a licavy rain storie, when I uddenly heard a long hurit of torquaties " seececet and " feececent notes. Didn't me the levid (5), but I think the notes were utter ed les 2 terres, fairly close together. Fatu, around 5:50, when we were driving back to Quito,

attapetes, May 20, 1962, III.

I saw a muje torquatus hopping o feeding along the well of the road. I immediately told Galarya to itop and liopped out of the care. As soon as I got out, I heard that the brid was uttering "feeeecet" and "feeeecent" holes. I don't know if it was appearance. In any case, I got a very good view of the livid. It had CR all the time it uttered the notes. Quite extreme, like the CR of the Orange-bulled spanow sheliked in my notes — not like the CR of torquatus during bowing described a couple of years ago. In Miff. No other special movements or portiones lescapt Riche ng, of course). On I stood still, the brid gradually hopped away, gradually was use. Fell releast and stopped CR.

notes of this yeurs are at least partly houtile. Is this primitive? Is it also true of the "rougs" of other upp. of altapetes?

attapetes, I

May 21, 1962 Pashinicha

(196)

Stell quite clarek.

2 Just at 5:30, there was a burst of DC. By at

least a buids. One uttering "Keeyoo" or "Fee oo" hotes,

with an our word "Kee" interpreted. The other uttering "Keeyoo"

or "Feeyoo" Notes and "Kee" notes in regular alternation.

"Keeyoo kee keeyoo keer keeryoo keer "" Mus burst of

? DC stopped within a couple of mirrorites. I think it must have

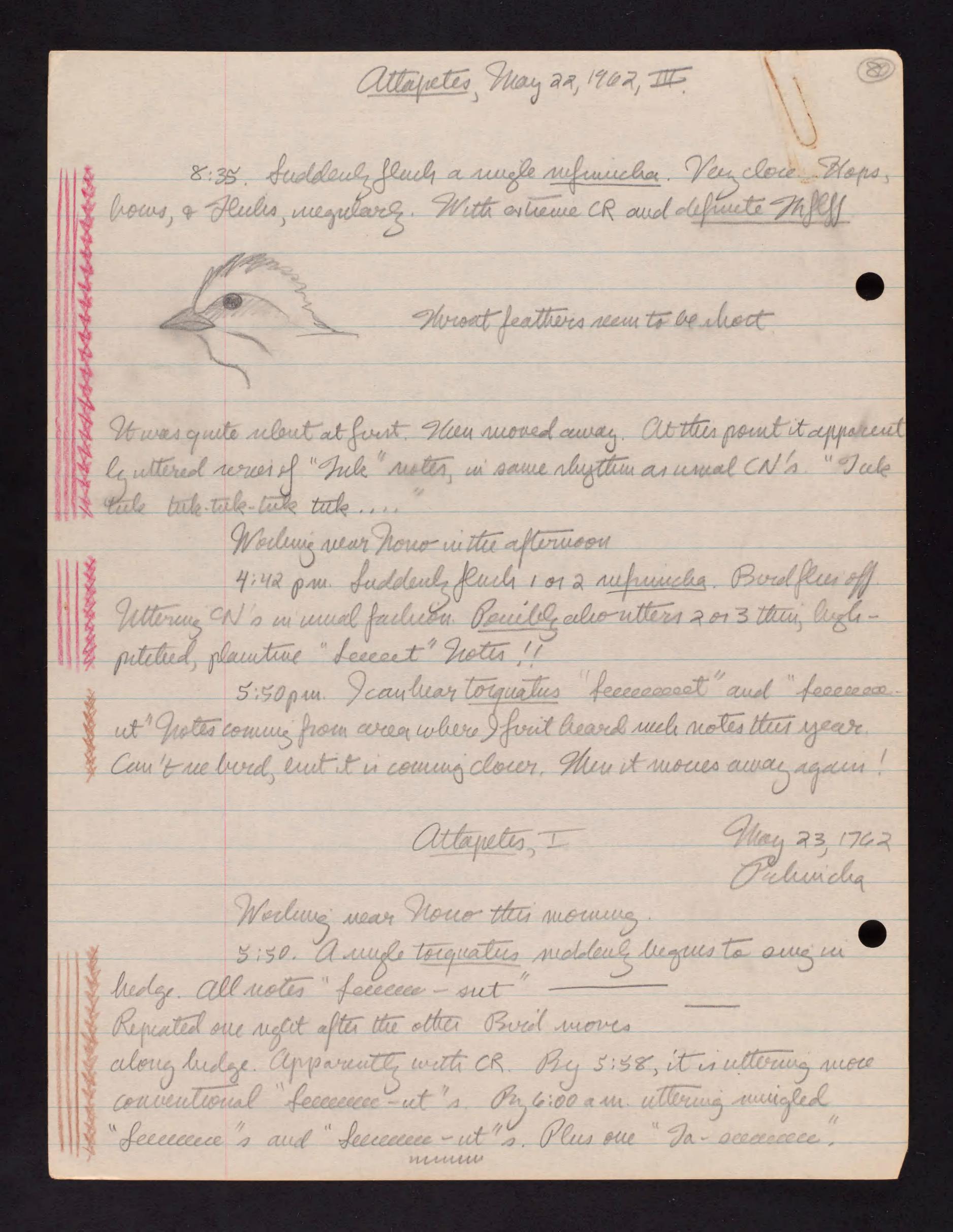
attapetes, May 21, 1942, IF

(F)

been uttered by evids which were awahened by the anwold of no secular notes were uttered. all their DC Holes were very semilar to Combly identical with ?) the whistle notes during the ordering nong" of rufine alea . I think they must have been uttered by sufficiences. 5,34 am. I go back to car to get my tobacco and In make rome noise in no doing. This neems to glovobe another hurs 7 t of DC, again nuburdes wito release after a runnite of 10 I stelle around area until a :00 am (when it is fully light Don't bear any regular refinitely roug in evact areas where DC But there are refinedea sugues rouse dutauce away, Waterung one perulued in tree. All songs methout R some phraise Keey oo Buli-leuli-kuli. Ottoes "Heeryoo keesee kuli-leuli-kuli" Fruit a notes of Catter quite like De Hotes heard earlier. But utting in ordinary porture. With CR. Jull horizontal, les wing movements. 7:00 am. Come amors 2 or 3 rufunction (pombly some pare observed yester day). Feedure & hopping along hedge. Alter lots & lots of "CN"s, both single and in series when they are obviously nervous about me. Is my interpretation of this pattern wrong? Ouce, when one burd came close to another, one of them apparen the ultered harrib, levarse, " 3 reals zole-zole HAC? Mar another refiniche sugue 7:25. Again no Rs

May 22, 1962 Ochwicha attapetes, I Worling in same place as yesterday morning. Arming Fued the whole area covered with vidraus & cows! But the DC still begins immediately. One best. Mitting "Kuyoo"s. At first with long whereals believe in notes. Men gradual accelerating. Bud moves about from place to place in hedge. Gradually begins to differentiate notes. For a while, every 3rd "Keeyoo" is Cower in pitels than the others Reeyoo keeyoo keeyoo keeyoo keeyoo, Men falls releast for a few recouds. Then it wits again, at approx unately same time, I or a other heids begin DC. More or low as yester Lay. One burd repeatedly utters " Hee bee keeyer kee bee feeryoo fee fee fee fee you ... " all brids moving about divine DC. I where flach light on areas where wounds are coming from but can't we atting 4.9. browns are well histon in hedge. This virement of Hellow threat. two beerds begin to interject doublets of short descending notes Remunicent of ilevet notes in ordense, day But the DC does not break up into phrases rong al nefmuella. at the same truce. after about & minutes, the De stops. It is not followed unwednately by ordinary day roug of infinicha. Bords which had been

attapetes, May 22, 1962, IE, De mig apparently fall relent. If this De is uttered by refininches, then the lunds mobably start to feed unwediately after DE (I might add that I am we that this DC in not utlered by the Coral Would The liveds said not round lele Wurkes while showing about and the early roug of the thrink began put after the De stopped, and was quite different in quality.) 5:58 am. It is now quite light. And it least I refunche has begun to atter day nous in the bedge from wheels the DC cause (alth ough not exactly in same place). Some songs with R. Then all with out. Buil reems to be moving down toward where I watched a build mugueg yestertay. Yes! It has now, 6:05, reached area where I walked it yesterday, all its rongs still without R now. Most roug composed of 5 notes. Only a few of 4. It looler as if reveral of sufruncha theep close together in rame I hedge bero. They wove apart to own territories to mug there. (The 1 Danig burd I followed most cloudy was moving in the opposite direction from this miguing lived here.) Luques turd flees away & Muts up 6:09 a m. Mujbroid wilamly approved to be completely unmated. Ce 13 am. The same or (more mobales) a defferent beid mug ung further away. Deculear roug, NoR, but extra notes added at end. Phraces eneuticille double. "Keeyoo kow bull-bul bul hecces



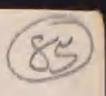
attempeter, May 23, 1962, II. (81) By 6:04 most of the notes are "Ta-necesees", Some of the "Fa-receeves o very bearne toward end. Others len so 7:15 any. Des austier single torquatus surgues. Most notes Ja-receeves on Ja-receeve-ut s. It is pourble that their notes were provoked by my appearance but I doubt it. At least, the buil routinued uttering same notes after it flew rome duitance away from me. man case, it ded not have CR at any true! Dalso noted that this bred had white on the center of its breat [and belly as well as on its chin, to it is definitely torquature.) May 24, 1962 attapetes, I Pullerida Worling in Hono this moneing. a torquatus begrus rugues by 5:43 a.m. Long "few when thes (quite as long as ordinary "Leecococce"). "Whit sens"s, "Whit receevee a and foreceve is. This is the same area where I wit heard a bird migning this year. Und buil news to be sugue from exactly same perch. 7:25 am. Come anois puri of refunding feedling in healge app areutly unduturbed by me. Attering notes alustutety court auty while moving around. Lats of rather roft "Fit's or "Frit's both singliqued in whost series. apparently ordenses "CN's also lots of soft, rather browne "Sceen" or "3 cene "hotes. Two types of notes never to intergrade Burds also occasionally utter "Zee-war 's Mually surgle. Lowetimes ? or 3 in roues. There rounded almost as if they might be intermediate between "fit and "zeece". Couldn't see very well what the burds

allapetes, May 24, 1962, II (83) were closing with the different types of notes. Once one of the livids hopped out of the hedge, naw wee, uttered one "Firt" note, much louder a lander than the "Firt's the livids had Ween uttering inside the hedges and then hopped back. May 25, 1962 atacaso Cruve unal place 5128 q mi "Kew" notes With an occasional "Treeyoo" or "Treeyooce" Every once in a while a series of short descending notes (also) ulerze ted. "Kew bew or "Kul kul bul bul". Once a rerues of "Kee beeyoo kul-bul-bul" uttificiled. almost typical "day song" Too dark to actually nee the beids. Deveral relevée falls 5,38 qm. Then a remidescoule of DC, loss intense than before. Then whence. Then another Myst burst of DC. Then whenle again 5:42.

Surt alisability typical "day rougo" with R. Totquetus roug! But don't actually ne the bord. Worling near hono or the afternoon. 5:00 pm. Come auon 1012 sufrinches. Birdwarquite ulent |||\&

attapetes, May 25, 1942, III. (83) We before it saw me. They attered "Drit's as usual when I appeared. They moved around beard and shut up immediately. So "Frit's may le houtete (SHN's?) afterall. September 18, 1942 Deleférico #1 attapetes, I Mis mountain news to be baded with atlayetes. at least here, above the stateous at 11:15 a.m. Howous. feleut. CR, Hifly and man flight int. movs. Pormbly trailing after a nured flock in their (flock included Black and White Warbler, some Reditartes), (2) Unidentified form, no. I on list. The one that looks If like lencoptered war Quito, but is darker below and has black If, mountache. I have only near this with mused slocks. Celways, I think The mi pavis. Lee molls on Diglomini, Inhall refer to this form as "PL" If for the time being wiff suntific name is (3) Unidentified years, no. It on list. I frist saw this species near Mucuruba and cacute yesterday in the relatively dry low country. I healt call this livid "WM" for the the being. Scientific name is a mugle bird was neen in a burch at the edge of a dry com field, near Mucuruba, yesterday at 6:10 am. Uttered lots of "Tuck" CN's or SUN's. also a few roft; then, roug plureses

altapetes, Sept. 18, 1762, II. (84) More or less comme ga: "Tuck tuck tazeezeezeezeezee " the main, terminal, part of this roug was appreciable rofter than the CN's or SHN's aparet from the song Cand probably also rofter than the introductory "Juck"s. A pair was near mear caente later nitte monning. Itters "hule 's and nothing more. Mus monning I naw a swelle burd of this years in a bush eliglette above the station were. Apparently viewous. Performed lots of fleght int, mous. Ollo uttored lots of their roft "feect" Notes, PN's? Then flew into another built rome dutance anony. Ultered "Ja see see see ser au it landed. "Greeting noug" Latter ui the morning I saw-another pair a little fivilier up the mountain. One uttered "Fuck"s. The other was releast September 21, 1762 Paramo La Negra allapetes, I Came arrows a presumed family of PL's this morning If at 7:00 am at 9350 ft in alpene sent. Auouated with If a mugle Fere belly Pocialotteraupes for as long as I walthed them If anouated with a nugle glor and a single andean spanow more The PL's tropped about very actively. Ittering lots of "Tuck o, hand and relatively bught pitched (almost " Isit 's or Tick's). One or more of them also ultered lots of "song". Early roug very complex. Beginning with a formless, jumbled, chatter too louds hand to be called a Warble. Followed by R. This, in



wes R and "Feeor"s repeated in a single song formetimes the "feeoo"s were uttered before the R; but this was relatively rare fores nually with CR. In low or pre-low portures.

19 might add that once, a few days ago, when I came a silent, moder or attendent outer outreme, "about", brigh-bow-leve portwie (quite like the coneyonding portwie of the Chestant-cap) with CR. To

Mifely or actual Bowing

It is interesting that the song of this exercis is so much that of sufinicha, while the song of WM is so reminist out of the Chestruit-cap, as both the O2 and WM seem to be alwort identical with sufrincha in shape and ordinary actions (although both may be more ward, tenestical in habits).

attapetes, I lept 22, 1962 Road to La Agulita

Leen neveral WM Attagetts around here this moning.

't: 10 am. 't600 ft, fee what is probably a swele WM Attap

etts with mixed flock, including 1 BCBT, and unidentified warbler

15) and flycatitur (5). Broid fruit recein tree, they went down into

low shrubbers. If my identification of this bird was count; its

movements and attitudes were remarkably reminiscent of chlorospun

gus while it remained in the tree.

ni thele but "uncovered" doublus. apparents alone.

allapetes Sept, 22, 1962, I. (86) Hush a paer of WM's from a thullet. Both liveds with "feet" not Mis years closes not new to be as frequently anouated September 23, 1962 Parmeno da Negra attapetes, I Or mignig. Long quite characteristic. "I seed Jeco Jeco I had bewed surelay rougs (lots of them) all morning, ever sure before semmie, without being able to me the migues lunds. Some variations. Ven manally a 4th "feeco" is added. Much more frequently the rong is abbreviated. When abbreviated, the fruit "trecet" is usually the fruit note to be dropped. Then one (my rank two) of the "fecoo is. None of then rough was anowated with R (or chatter, as faras I could tell) (Lo the R and chatter beard a couple of days ago must have been largely or completely worther.)

The berd actually new ringing this morning was perched

attapetes, Lept. 23, 1962, II

(89)

on an exposed branch on top of a tree. I could only see it front new cent it received to be in much the same portion as singray rufunctions. Head pointed diagonally apward. Some CR.

The other wide heard suigrag were in under brush. Duron ghout this whole ween of thick sunt and scattered trees Well

9:35 am Suddenly Steel a single Pr. Theis into very low south. Utters "feeet" notes in flight and after landing. One there notes alarm? Bird also utters "Frit" notes after landing. Then it flees back. Perches exposed, only a few feet from me. Standing in me-loco porture. With CR. Titters more "Frit"s. to perhaps "feeet"s aren't alarm after all.

This incues news to have a longer next than infiniched.

But next is nounded (in profile) during CR.

attapetes, I

September 24 1942 Paramo La Megra

Same place as yesterday 5:30 a.m. Hear fruit PL songs.

Petter more varied than rough heard yesterday First song heard

"Feed feed feed" "Mis followed by more slaborate plinares.

"I seet-sa-seet need" "I seet-sa-seet treet-sa-reet"

"I seet-sa-seet feed feed feed feed "Etc. D.E. It is the first

out of the rough phrase that is most elaborate at dawn Can't see

the livid singuing. Low hidden in slowbory. "I seet-sa-seet

feed feed feed "mest common phrases."

September 25, 1942 allayetes, I Paramo La Megra Laure place as yesterday Oder of PL's Jeedeng by theunclus One flees to your the other. Journe build allers soft, lugh, Then worlde (partity componed of "ta-zeece-uh-zeecece" Typic components), which changes gradually but repully into R, and is then followed mun eductity by 3" Feero " hotes, as it conves in, all this as greating! Willout CR. Men as the liveds continue to move through shrubbers one or broth atteres) more greetings "whenever they come close to oue another. Extremely variable, Sometimes "Warble" alone, forme Tunes Warble, followed by Ralow, Jouetunes Warlob - R- Feeoes 114 ar liefou. Sometimes R followed by Warble!! Then burds fly to jour floots including Banbuterus XI and 2 allowyloura 8:00 am alert Portueue withCR Chui white, breast o bell gray 9:05 Come anois what is obvious the same pair of PL's, now feeding by themselves. Itill "greeting" courtainty. Muchastef ore. Just notued one more type of variation. Wardle - their lugli Trill "freegegge - ordinary R (low o wooden) - Feloos. This

allayetes, Lept. 25, 1942, II

89

Juli obviouil intermedicate between "seececce" or "3 ececcce" of Worlde and ordinary R.

The Wordles are often rather "pumping". Quite reneinscent

Mui a les for the voucest luch fund I have new event for Relleophones. Obveouel not conscidental that it plays same roual role as latter.

allayetts, I

Systember 26, 1962 Paramo La Hegra

One levid starts suignes their monning by uttoring lots of plur ases like "Inecest - sa-wheet wheet" Mis is obviously frent half of "complete" roug. It is only about 5:58 that this brid starts to add
"Jecoo" Notes to roug

Walling along road 7:15, come accors same part of PL's that were so now, guterlay, Just as now, today, in the same way. Then realize that there is (are) for 2 more PL's nearly, also uttering same "greeting"— hortile calls. General hubbart. Coming back 7:30, come anon for 2 PL's same place. Very just. Titles "fecet"s, no was so the moismens of this species recurs to winesse rear boundaries of tentones, in same way as in Prelliophorus. Premiably serves same function

Altapetes, I September 29, 1962 Parawo de Guasca 5:35 am. In area where Fafo are common. Olpine semb juit below paramo still. Hear Pr Altapetes song. Rather disorganizal when when it starts. First attempts count of nothing more than 2 or 3 "Fecoo"s. Then the first part of the

intervals Only after this, were typical complete rones ultered.

On a result of these observations, and earlier observations near Merida, it is obvious that this species does not have any

De putteren us much.

H'cov's. alone when frust near. Then a Laf appeared brufz wa.

I weardy luch, and their disappeared again.

Men, at 9:15, I came across the bulliant and varied number of the subject. Hus included one new species of attapetes (which I shall call "PR"), mo XIV, another new species intech may be attapetes, no. XV; and pair of the first and there's and there's of the result.

I shall mark PR 11 Hts muntifre mame is

they appeared to be black above and yellow below, lette rufina cha but wette the crown stupe yellow in front and white behind

The PR's are the livids that utter the "ween-lile" song men troved in today's notes on Diglamini. Rapid a powerful twitter me or warbling. Hundle begins "Leece sceee...." After this, its structurie is difficult to dutinguil, but does willede "Ja-sceecec", or "Ja-sreecece", The whole thing rounds very winch like a speeded up version of the rougs of with attapetes sp. as the Chestant-cap and the WM. Almost certainly also

contains more notes than the rongs of the latter.

Thus afternoon, at a lower, elevation on the road to

Greasea, I came across another pair of Atlanetes wheels were alm

out certainly 8R 's. In uncovered invultures, 5:45 pm. These

liveds approved to have buffy fronts to their counstupes; and their

upper bodies (but not their facial marles) appeared to be medicin

gray (ratter than black) or even olive-gray. Was this apparent

difference due to different light????

There liveds uttered "feecest" and "fee - recet" notes while moving about, apparently wellituriled, and "Jack"s

when obvious duturitied about me.

uids, of augother species.

attapetes, I

Sanamo de quasa

Westernig in place ilegality above yester day's, Porcelly ilighte wetter. More trees mangane, it is raining their morning.

Near both Pr and PR attapetes around 6:06 a m. Can't rec

(92) allapetes, Lept, 30, 1962, IL Ittle buids; but they can't be far apart. Auscialus with one anothers, Studelle get decent view of OR. Buck and wings are state coloued. That too very much lighter than famil much, Front of crown is more orange yellow than underports, but not infous. Gellow underweath warled with duty on flaules. Mis build in nured flock, Soully rerving as leader, With Mute bearded Hycaldier unid. Mujobones poully olkers This buil apparently joined ligited after a minute or so, Song as "greeting! Delivered from nuritualized porture, without To my mourledge I howen't beard the local O'L's utle the I'very Coud "greeting" patterns which were so common at times, war I menda. Is the local four intermediate between Merida four and the Quito leucopterus in gregarious beliaveor? Apreals of the devil! now, 4:36. Hear luvet of what nousels We Ph "Warlete", followed numediates by "Feeoo" Thotes, Ho R. Stell, there bends are certainly quieter, on the whole, than the Miere The PR attagettes new to be structated by the round of D. lapremayer surging. Why? Why is it advantageous? fatter in the monning, still in same area, come anois two mured flocks or, more probably, the same mired flocke turce. Jududing pair of PR's, but no PL's, almost cortainly the sain e levels as in mired floods specterday. Dan now beginning to think that PR's may play a definite, youal, noreal role in the re nurved flocks, SEE TODAY'S NOTES ON MIXED FLOC

allapetes, sept. 30, 1767, III. (93) HS. While in the flockers, the PR's uttered a number of rouge. Mouth "Warlies , lilie the ones cettered yesterday and earlier today apparently mostly as "greetings" Callio the levels mere never really verible when there rouge were uttered in the florles. One burst of Warbles was definitely piecesled by R's, lelie the R'not PL's Others welled defente R-components (freeeeeeee type) within thewelves. The rough of this species are really remorbably warleter-lette (but not much lette the Cocal Bankenterus) and Siglomine-lehe. Is their numicry? Designed to attract the local diglements ????? pair of PR's which were quite alone Cercept for Andean Sparion s, which were every where in the area, but did not neem to pay any attention to, or be paid any attention by the PR's) Thui species is ceretaring not always a members of nerved florers. Uctober 24, 1942 Mits alrow Bogota allegelles, I 9 watertied a lot of BR's live today.
SEE TODAY'S NOTES ON BOTH MIXED FLOCKS AND For approvinately 15 minutes after 5:30 a.m., I heaved a lo t of rough which were semilar to fluit not identical with the so up of the PL's in Venezuela, as I saw no PL's withers area un the bonds actually surging The songs were comme ca:

allegretes, Oct. 24, 1967, II. (94) " Feero feero secrete feor" Lower the "seecece" was replaced by " srecesco" an uvin the build ullering their light-piteled notes in regular indetermin attrevues "feeret secret secret secret secret secret." There sounded exactly leve PN's of lots of Cettagetes, also utter edleg PR's? afound DC? I miglit add that this species is more nearly terrestrials or at least leads to stay lower in suit, than the rufundias near Quito. also relatively long-tailed. Alus song (?), proportions, & color patterni mould all m agent that the PR is quite closely ulated to the Yellow-throat! Detatus 30 1942 Boquerou de Gollo attajutes, I Weitern andes Le road, 4700 ft, 4:40 pm. Fitters "Lececcet"s. apparently alone
Rot amoriated with wids of other species

attapetes, I

Boqueron de Tello

Meand what were obvious? Yellow throats senging this morning at lawn. No DC. One Evril, probably the bond rea yes torday, repeatedly ittered roft phrases, each of which was more or less comme ça: "I execusive que-ze-zee." Other bonds were beard to atter phrases which were at least similar 19 couldn't tell if they were identical or not). The tone and loudness of all there phrases newed to be identical with the conserponding features of the Yell ow throats in Chiriqui.

Stell no ugi of the local Yellow-throats anomating with

Me mured flores.

Atlapeter, I

April 4, 1963 Near Farma

Mis sworming, i.a. 7:00 a m 3 down in the hermid region below.

Palea, 7000, I new a swizle Bush-finish, apparently the "PL"

A. schistateus. View, minilar to, or identical weth, the PL's near in

the mouthern Andes Rufous crown, black cheeks, a white mountacke,
a black stupe below the white mountacke; light gray of whiteh throat

murging gradually into medicin gray of next of undergarts (is this dark

en than the underparts of PL's in morthern Ander ???), etherwise

later or blackers above.

This livid was wear of newi-open scule, welleding low-

atlapetes, apr. 4, 1963, II. (96) A variety of notes Most frequently "Whit where ooo"s. also descended due 3-note patterns: "Whit whit what "Mere two types of woed patterns mired apparently at randow. But "Whit wheereoo " always more common them descenting 3 - note veries. Every once in a white, the boild would also went sugle "Wheeesoo" hotes also uncerted apparently at random. There would patterns probably early to homologies with patter us of PL's heard in other arreas. When I first raw the burd it was apparent alone. Ultering word putterus while in sunt, 2-3 ft about ground. Unall whi a perdied munobile In unritualized poeterie. Fometimes with ciown feathers unoothed down. At other times, with nown fluffed (no that the top of the head Cooled round). Ho CR. Charwially roung attered as beend moved through the bushes. Again without obvious returney edportures a monuments. Ourd sung from a linge varuets of differ out perdies; but all wellen a raclus of 10-15 ft. The burd rang steadely for a long time, with more or less megular cuteruptions by geriods of releace. fuddenly, 7:20 am. I looled up to metteat there were 2 PL's in the area. about 3 feet apart One of their was deficitely pulling at, or mounts bryung to pull up, a piece of n.m. (a long strand of grass)!!! They, ruddenly one leved flow straight at the other. I think that the bred that seem was probably the of and probably the brid that song eardier The burd that was approached was probably the q and probably

attapetes, apr. 4, 1963, III.

99

the bond that had been playing with now. This was followed, investigate of by rome "confined" charing back and forth which I found very difficult to follow Immediately after this, one of the winds began to deep lay in somewhat the same way as the Yellow throated Brench fuels.

One lived went into extreme It. This was assumed by the brief immediate the after retreative. I think the lived was the I amply the brief that had flown to the other. It commerce:

Very extreme.

Whose drooped (throughout all the

ft Portivers, and the Low Bow Portive
es — we below).

Jail widely spread (wall It Per

Tail widely spread (wiall It Pes twees and who in all Jow Bow Partur es).

The livid faced its opposed or part ner in this partwee. Revealing whit who threat - which was really very very compressons.

After the level stood in their porture for rowe records, it gradus ally came out of the partieve, and it writed to move about, Hopping from twenty to twing. Anomy this hopping, it assumed a more or less distinctive partiere, which record to be a four of Low Bow Porture, with a truck of continuous BV, as in ft. Comme so

attapetes, apr. 4, 1963, IV. Then there was some more "fidelling" back and forth between the 2 Curels. again, I couldn't follow it. One buil (09?) upeatedly armined It's or cow interests int moves of It's. Mually ifth and or before elight retreats. Variety also traces of Low Bow. Counter were relait. But their one of the livids Epresumally the ord began to mig ma weak It. Portiere First mujele whether "Wheere soo"s. Then the other elements of typical roug were adoled, as the bird gradually relared and dropped the It 7:30-4:45. Papparente alone again, migrue full rongs as before in mon or less unritacileed perchuie porture. It reems very levels that this whole micident was an unsuccufrel copulation attempt followed by vigorous hostelets between the mates attapetes, I April 5 1963 Moar Jarma 7.10 am 9500 + Working in deure wet unbalong ravine, Come across a pair of what is justably the same "PL" species that I saw yest Le enday. But today notice that their crown pattern is different from that of the PR's I bowe neu ni other regions. Comme ga